



ORANGE COUNTY SANITATION DISTRICT

February 15, 2002

phone:
(714) 962-2411

mailing address:
PO. Box 8127
Fountain Valley, CA
92728-8127

street address:
10844 Ellis Avenue
Fountain Valley, CA
92708-7018

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Certification Statement

The following certification satisfies Section E.5.c. of the Orange County Sanitation District's Monitoring and Reporting Program No. 98-5, NPDES No. CA0110604, for the submittal of the attached EPA 40 CFR Part 503 Compliance Report 2001.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Michael D. Moore
Environmental Compliance & Monitoring Manager

Date

MDM:mcm

H:\WP.DTA\TS\3550\310\311\CERTIFICATION STATEMENT.DOC



Lauren Fondahl
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February 15, 2002

- Summary of Operational Standards Employed for Pathogen and Vector Attraction Reduction as defined in 40 CFR Part 503.32 (b) (3) and 503.33 (b) (1).

The above-mentioned information has been separated into two separate sections by District's treatment facilities for your convenience. The District's treatment facilities are identified as: Reclamation Plant No. 1 located in Fountain Valley, California and Wastewater Treatment Plant No. 2 located in Huntington Beach, California. For your information, we have included a copy of the Solids Management Program portion of the District's Source Control Annual Report for fiscal year 2000-2001 in Appendix A and our Environmental Sciences Laboratory report of Summary of Priority Pollutants for 2001 in Appendix B.

Furthermore, in accordance with the 40 CFR Part 503 reporting requirements, each of the District's Biosolids Management Contractors (applier) has provided their annual report information and certification statements which are found in attachments in Appendices C, D, and E.

If you have any questions or comments regarding this packet of information, please contact me at 714-593-7450 or Layne Baroldi at 714-593-7456.

Michael D. Moore
Environmental Compliance & Monitoring Manager

MDM:kis
H:\BORON\Lab\Attached\Biosolids\40CFR503\LetterTransmittal2001

Enclosures

c: ECM File

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APPENDICES

APPENDIX A

District's Source Control Annual Report Chapter 9:
Biosolids Management Program, Fiscal Year 2000 - 2001

APPENDIX B

Summary of Priority Pollutants and Trace Constituents Analysis - 2001

APPENDIX C

Synagro - Contractor 40 CFR Part 503 annual biosolids report information and certification statement

APPENDIX D

Tule Ranch - Contractor 40 CFR Part 503 annual biosolids report information and certification statement

APPENDIX E

Yakima - Contractor 40 CFR Part 503 annual biosolids report information and certification statement

ACKNOWLEDGEMENTS

The Orange County Sanitation District wishes to acknowledge the following individuals for their valuable contribution to this report:

Michael D. MooreEnvironmental Compliance and Monitoring Manager

Layne Baroldi.....Reviewer, Senior Regulatory Specialist

Karen Stearns.....Project Coordinator, Senior Environmental Specialist

Asha Bambhaniya.....Reviewer, Contract Employee

ORANGE COUNTY SANITIATION DISTRICT

Organization and Function

The Orange County Sanitation District (District) is a "Special District" single-purpose entity formed solely for the processing and disposal or reuse of wastewater and its residuals. This is done in accordance with the requirements set forth in National Pollution Discharge Elimination System Permit (NPDES) No. CA0110604. The District serves a population of approximately 2.4 million people living in a 476 square-mile area that encompasses the majority of metropolitan Orange County, including 23 of the county's 34 cities. During 2001, an average daily sewage influent flow of 241 million gallons per day (MGD) was treated and 534 wet tons per day of biosolids was produced.

Description of the District's Treatment Plants

Reclamation Plant No. 1

Reclamation Plant No. 1, located in the City of Fountain Valley, treated an average of 86 MGD in the year 2001. A diversion structure allows the wastewater from any of six sewers tributary to Plant No. 1 to be diverted to Plant No. 2 to match wastewater flow with the plants' treatment capacities. The wastewater flows through bar screens and is pumped to an aerated grit chamber where the velocity of the water is slowed to allow sand, gravel, heavier particles, and debris to settle. During 2001, the District's grit and screenings were hauled by Synagro to the Simi Valley landfill until May when the District contracted with Waste Markets to haul the material to Simi Valley and Yuma landfills in California.

Following the grit and screening process, the wastewater undergoes advanced primary treatment. The advanced primary treatment process includes the primary sedimentation basins (clarifiers) where the organic solids settle and are separated from the wastewater. The settled solids are pumped into anaerobic digesters for stabilization. These solids are treated according to 40 CFR Part 503 option 1 for anaerobic digestion, which requires a retention time of 15 days at a temperature of greater than 95° Fahrenheit and a volatile solids reduction of greater than 38%. The covered primary clarifiers capture potentially odorous air which is scrubbed to be in compliance with the District's odor control policy.

Following primary treatment, a portion of the wastewater is pumped to conventional activated sludge secondary treatment or to four tricking filters. The sludge from the primary and secondary treatment processes are anaerobically digested and produces methane gas. This digester gas, or natural gas, fuels internal combustion engines that provides power to 2,500-kilowatt electric

generators. Electricity produced from the digester gas produces the majority of the power needed to operate Plant No. 1.

A portion of the secondary treated water is pumped to Orange County Water District's Water Factory 21 for additional treatment for water reclamation projects. The balance of the secondary effluent flows to Plant No. 2 and blends with treated wastewater from Plant No. 2 prior to ocean discharge.

The anaerobically digested biosolids are dewatered utilizing belt filter presses to approximately 22% solids for transportation to beneficial reuse sites. The District's loading facility allows for rapid and clean loading of biosolids into trucks stationed on scales within an enclosed air scrubbed building.

Treatment Plant No. 2

Treatment Plant No. 2, located in the City of Huntington Beach, treated about 154 MGD of wastewater in the year 2001. The flow enters the headworks that contain flow meters, five mechanically-cleaned bar screens, sewage pumps, and aerated grit chambers.

Twelve primary clarifiers provide the advanced primary treatment at Plant No. 2. An oxygen-activated sludge plant provides secondary treatment to about 40% of the flow. Secondary effluent from both plants is combined with the remaining advanced primary effluent for ocean discharge through the District's 120-inch diameter five-mile long ocean outfall.

The solids from the primary and secondary treatment processes are anaerobically digested according to 40 CFR Part 503 option 1 for anaerobic digestion, which requires a retention time of 15 days at a temperature of greater than 95° Fahrenheit and a volatile solids reduction of greater than 38%. The digested biosolids are dewatered using belt filter presses to about 22% solids and loaded into tarped trucks in an air controlled and scaled loading facility. Biosolids truck loading is scheduled for "off peak hours" so that trucks hauling District's biosolids travel southern California highways with the least adverse impact to traffic.

COMPLIANCE PERIOD JANUARY – DECEMBER 2001

Biosolids Management

Biosolids produced in 2001 at the District's two treatment facilities were managed by three beneficial use contractors:

- Synagro
P.O. Box 7027
Corona, CA 92883
Contact: Mark Grey (909) 277-2662
- Yakima
P.O. Box 311
Woodinville, WA 98072
Contact: Jim Willett (425) 483-8689
- Tule Ranch
12231 Benner Avenue
McFarland, CA 93250
Contact: Ben Lapadula (661) 725-1004

These biosolids management firms provide the District with diversification and reliability. Each firm, if requested, could manage 100% of the District's biosolids, acting as a fallback option for the other firms. They are all-important partners in the District's Biosolids Management Team.

Plant Production & Process

Plant No. 1

Plant No. 1 produced 74,358 wet tons (approximately 16,359 dry tons) of biosolids over the period of January 1, 2001 through December 31, 2001. These biosolids were anaerobically digested for an average of 24.1 days at 37 degrees Celsius (98.8 degrees Fahrenheit).

The biosolids digester time and temperature resulted in an average volatile solids reduction of 62.5% over this digestion period. This process provides compliance for the "Class B Pathogen Reduction" and "Vector Attraction Reduction" definition for "Class B Sludge" as defined in 40 CFR Part 503.32(b)(3) and 503.33(b)(1), respectively. The biosolids were dewatered using belt filter presses to an average of 22% solids and were hauled to beneficial reuse sites.

Plant No. 2

Plant No. 2 produced 120,380 wet tons (approximately 26,684 dry tons) of biosolids from January 1, 2001 through December 31, 2001. The process at Plant No. 2 is similar to Plant No. 1 in that the biosolids were anaerobically, digested for an average of 23.4 days at 36.9 degrees Celsius (98 degrees Fahrenheit). This process provides compliance for the "Class B Pathogen Reduction" and "Vector Attraction Reduction" definition for "Class B Sludge" as defined in 40 CFR Part 503.32(b)(3) and 503.33(b)(1), respectively. Biosolids from Plant No. 2 had an average volatile solids reduction of 63.1%. The average solids content of the biosolids at Plant No. 2 after dewatering was 22.2%. The biosolids were hauled to beneficial reuse sites.

Biosolids Distribution

Between January 1, 2001 and December 31, 2001, the District contracted with Synagro to haul and directly land applied 19,428.6 wet tons (4,274.3 dry tons) of biosolids from District's Plant No. 1 and 36,948.4 wet tons (8,128.7 dry tons) from Plant No. 2. Synagro applied biosolids to agricultural land in Arizona and in Riverside, San Diego County and on tribal land in San Bernardino County in California. Synagro also composted 220.36 dry tons from Plant No. 1 and 902.14 dry tons from Plant No. 2 at their Riverside County compost facility.

During this same time period, the District contracted with Tule Ranch to haul and directly land apply 23,139.7 wet tons (5,090.7 dry tons) of biosolids from Plant No. 1 and 82,381.2 wet tons (18,288.6 dry tons) of biosolids from Plant No. 2. Tule Ranch also used commercial fertilizer spreaders to distribute the biosolids prior to incorporation on agricultural land in Kings and Kern counties, California.

The District also contracted with Yakima during the January 1, 2001 through December 31, 2001 time period. This contractor hauled 31,790.0 wet tons (6,993.8 dry tons) of biosolids from Plant 1 and 1,050.3 wet tons (233.2 dry tons) from Plant 2. Yakima used commercial spreaders for biosolids distribution prior to incorporation of agricultural lands in Kern County.

Summary of Pollutants

Between January 1, 2001 and December 31, 2001, all of the District's biosolids were beneficially recycled. Biosolids quality improvements have been achieved over the last eleven years for reduction of metals such as cadmium, copper, lead, nickel, silver, and zinc. The District's EPA award winning Source Control Division's Pretreatment Program has been very effective in lowering the content of these trace metals in both the influent wastewater and biosolids. Table 1 and 2 in the compliance data section, show a comparison of the concentration limits

of the pollutants listed in 40 CFR 503 to the District's average biosolids concentrations for each plant. The maximum concentration of all pollutants in District's biosolids fell below the conservative "Table-1 Ceiling Limits" and "Table-3 Exceptional Quality Limits" found in 40 CFR Part 503.

Biosolids Monitoring for Clean Water Act Section 307 (a)

Monitoring

All of the District's biosolids have been beneficially recycled during the compliance period of January 1, 2001 through December 31, 2001. The District's EPA award winning Source Control Division's Pretreatment Program has been effective in reducing the amount of pollutants in both the influent wastewater and biosolids. These pollutants are listed under Section 307(a) of the Clean Water Act (CWA). In accordance with the District's NPDES permit, biosolids pollutants are tested semi-annually for all pollutants listed under Section 307(a) of the CWA. Appendix B displays test results of these pollutants. The maximum concentration of all pollutants in District's biosolids fell below the conservative "Table-1 Ceiling Limits" and "Table-3 Exceptional Quality Limits." Consequently the District's wastewater influent meets federal drinking water standards for metals.

Title 23 CCR: Determination of Hazardousness

Legal Definitions

Under the provisions of California's Hazardous Waste Control Law (HWCL), hazardous waste is defined as all wastes included in the Resource Conservation and Recovery Act (RCRA) plus certain additional substances. HWCL determines if a waste is hazardous if it is not excluded under the recyclable materials provisions or otherwise, and it meets one of the following criteria:

- The waste is conducive to ignitability, reactivity, corrosivity, or toxicity
- The waste is a RCRA listed waste that has not received a RCRA variance
- The waste is listed on a DTSC list of potentially hazardous substances
- The waste is a mixture of a listed hazardous waste and other waste
- The waste is classified by the DTSC as hazardous under the general definitions of a hazardous waste set forth in Health and Safety Code 25117

Determination

The District does not output biosolids with listed substances in amounts deemed as hazardous. This conclusion was reached by comparing data of the District's

known substances with the requirements of Title 23 California Code of Regulations (CCR) regarding the definition of hazardous waste. Please refer to District Biosolids Monitoring data in Appendix B, Summary of Priority Pollutants and Trace Constituents Analysis – 2001. Because of this determination, the testing requirements under Title 23 CCR are not applicable to the Districts' Biosolids program.

Table 1 - Orange County Sanitation District

Biosolids Monitoring and Reporting for 2001

Reclamation Plant #1, Fountain Valley, CA

Biosolids Monitoring and Reporting for 2001													Biosolids Monitoring and Reporting for 2001			
SOIL Analyses		Biosolids Monitoring and Reporting for 2001												Biosolids Monitoring and Reporting for 2001		
Constituent (mg/Kg) Dry	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Mean	Ceiling	EQ	
Arsenic	6.3	6.9	8.1	6.9	7.3	5.5	3.70	4.60	4.80	6.20	4.60	4.60	5.8	75	41	
Cadmium	20.0	26.0	37.0	30.0	27.0	17.0	13.00	11.00	12.00	16.00	13.00	11.00	19.4	85	39	
Copper	1000.0	900.0	1100.0	900.0	860.0	760.0	820.00	713.00	540.00	760.00	710.00	730.00	816.1	4300	1500	
Lead	60.0	51.0	60.0	58.0	86.0	67.0	57.00	57.00	43.00	46.00	41.00	44.00	55.8	840	300	
Mercury	2.1	2.2	1.9	1.9	1.6	1.8	1.70	2.00	2.00	2.30	2.10	2.40	2.0	57	17	
Molybdenum	16.0	15.0	15.0	15.0	17.0	20.0	21.00	19.00	16.00	18.00	18.00	18.00	17.3	75	N/A	
Nickel	200.0	200.0	240.0	230.0	230.0	230.0	237.00	157.00	140.00	153.00	180.00	130.00	192.9	420	420	
Selenium	12.0	11.0	12.0	5.4	11.0	22.0	10.00	12.00	7.20	15.00	4.10	5.30	10.6	100	100	
Zinc	930.0	840.0	900.0	770.0	810.0	810.0	817.00	787.00	630.00	780.00	730.00	780.00	797.0	7500	2800	
Total Kjeldahl Nitrogen **	46000	46000	42000	14000	13000	11000	14000	11000	9300	50000	54000	62000	31025.0			
Process Assessment													Pathogen and vector reduction requirements (Class B, Option 1)			
Digester Detention Time (days)	25	24	24	26	22	24	23	24	24	24	25	24	24.1	15 days minimum detention		
Digester Temperature (°F)	99	98	99	99	99	99	99	99	99	99	98	99	98.8	95 - 131°F		
Digester Temperature (°C)	37	37	37	37	37	37	37	37	37	37	37	37	37.0	35 - 55°F		
Volatile Solids Reduction (%)	64	61	64	60	62	61	60	62	63	63	65	65	62.5	38% or higher		
Biosolids Cake Solids (%)	21.0	22.0	22.0	22.0	23.0	22.0	23.0	23.0	22.0	21.0	22.0	21.0	22.0			
Quantity Generated													Total	Total Quantity Generated		
Synagro (wet tons)	3564.59	2641.81	3133.20	2005.98	2306.86	652.53	151.95	2027.25	2196.93	285.81	461.73	0.00	19428.6	WET TONS		
Yakima (wet tons)	1099.30	653.72	1015.72	1664.03	1744.91	2797.48	3718.54	4128.73	3374.64	3937.86	3707.17	3947.92	31790.0	DRY TONS		
Tule Ranch (wet tons)	2185.32	1471.28	2317.07	2573.06	2355.44	2203.90	1623.59	1835.70	1119.29	1999.02	1587.20	1868.78	23139.7			

** No ceiling or EQ limit

NA - Data not available

Prepared By: J. O'Brien
 Date: 2-13-02
 Checked By: J. O'Brien
 Date: 2-13-02

Table 2 - Orange County Sanitation District

Biosolids Monitoring and Reporting for 2001

Wastewater Treatment Plant #2, Huntington Beach, CA

Constituent (mg/Kg) Dry	Annual Mean												601 Criteria Concentrations (mg/kg)	
	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Ceiling	EQ
Arsenic	8.6	8.7	8.8	7.7	8.8	7.6	4.0	5	7.5	7.2	6.3	5.7	7.2	41
Cadmium	8.2	7.4	9.5	10.0	8.8	10	10	10	10	10.0	9	10.0	9.4	39
Copper	870.0	850.0	820.0	810.0	930.0	670	693	697	650	680	650	680.0	750.0	1500
Lead	47.0	43.0	53.0	42.0	61.00	38	37	61	69	56	40	39.0	48.8	300
Mercury	1.9	2.2	2.0	1.6	1.80	1.7	2	2.3	1.9	2.4	2	1.7	1.9	17
Molybdenum	14.0	11.0	14.0	14.0	15.00	17	17	18	17	16	12	13.0	14.8	N/A
Nickel	72.0	71.0	89.0	94.0	93.00	98	123	120	120	110	89	92.0	97.6	420
Selenium	11.0	10.0	10.0	6.7	11.00	12.0	15.0	7.0	7.1	12.0	4	4.8	9.2	100
Zinc	780.0	740.0	790.0	750.0	880.00	810	817	893	840	840	790	830	813.3	2800
Total Kjeldahl Nitrogen **	15000	33000	42000	16000	10000	36000	21000	8600	23000	43000	50000	40000	28133.3	
Process Assessment												Pathogen and vector reduction requirements (Class B, Option 1)		
Digester Detention Time (days)	19	18	18	22	24	24	25	27	31	25	25	23	23.4	15 days minimum detention
Digester Temperature (°F)	98	98	98	98	98	98	98	98	98	98	98	98	98.0	95 - 131°F
Digester Temperature (°C)	37	37	36	37	37	37	37	37	37	37	37	37	36.8	35 - 55°F
Volatile Solids Reduction (%)	65	57	63	66	60	62	64	67	67	64	61	61	63.1	38% or higher
Biosolids Cake Solids (%)	22.0	23.0	22.0	22.0	22.0	23.0	22.0	22.0	22.0	23.0	21.0	22.0	22.2	
Quantity Generated												Total	100%	
ynagro (wet tons)	4801.35	5439.74	4908.00	3530.64	4671.63	1055.43	50.86	3116.85	2423.45	2306.70	1826.08	2817.62	36948.4	
Yakima (wet tons)	0.00	0.00	78.62	27.60	127.00	131.29	458.10	179.55	0.00	0.00	0.00	48.18	1060.3	
Tule Ranch (wet tons)	5308.88	4434.77	4877.00	5975.04	6772.80	7766.42	9273.04	9324.77	7832.59	7524.23	7023.26	6268.42	82381.2	
													WET TONS	120,380
													DRY TONS	26,724

** No ceiling or EQ limit

NA - Data not available

Prepared By:	<i>J. Cleary</i>
Date:	2-18-02
Checked By:	<i>J. Barath</i>
Date:	2-11-02

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-1**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Reclamation Plant #1,
Fountain Valley, CA - EQ Class B

Monitoring Period : 01/01/01 To 01/31/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	6.3	41 mg/kg	75 mg/kg
Cadmium	20	39 mg/kg	85 mg/kg
Copper	1,000	1500 mg/kg	4300 mg/kg
Lead	60	300 mg/kg	840 mg/kg
Mercury	2.1	17 mg/kg	57 mg/kg
Molybdenum	16	N/A ²	75 mg/kg
Nickel	200	420 mg/kg	420 mg/kg
Selenium ³	12	100 mg/kg	100 mg/kg
Zinc	930	2800 mg/kg	7500 mg/kg
Average Percent Solids	21	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.
Class A _____ Class B X

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

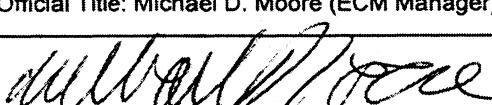
Option 1 X Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in§503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: <u>2/27/01</u>

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-2**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Wastewater Treatment Plant #2,
Huntington Beach, CA - EQ Class B

Monitoring Period: 01/01/01 To 01/31/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	8.6	41 mg/kg	75 mg/kg
Cadmium	8.2	39 mg/kg	85 mg/kg
Copper	870	1500 mg/kg	4300 mg/kg
Lead	47	300 mg/kg	840 mg/kg
Mercury	1.9	17 mg/kg	57 mg/kg
Molybdenum	14	N/A ²	75 mg/kg
Nickel	72	420 mg/kg	420 mg/kg
Selenium ³	11	100 mg/kg	100 mg/kg
Zinc	780	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

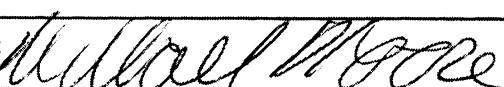
Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in§503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: <u>2/27/01</u>

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-1**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Reclamation Plant #1,
Fountain Valley, CA - EQ Class B

Monitoring Period : 02/01/01 To 02/28/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	6.9	41 mg/kg	75 mg/kg
Cadmium	26	39 mg/kg	85 mg/kg
Copper	900	1500 mg/kg	4300 mg/kg
Lead	51	300 mg/kg	840 mg/kg
Mercury	2.2	17 mg/kg	57 mg/kg
Molybdenum	15	N/A ²	75 mg/kg
Nickel	200	420 mg/kg	420 mg/kg
Selenium ³	11	100 mg/kg	100 mg/kg
Zinc	840	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A Class B X

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

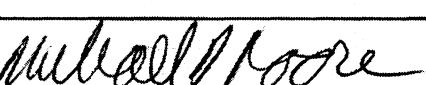
Option 1 X Option 2 Option 3 Option 4 Option 5 Option 6

Option 7 Option 8 Option 9 Option 11

No Vector attraction reductions were performed

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: <u>4/11/01</u>

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-2**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Wastewater Treatment Plant #2,
Huntington Beach, CA - EQ Class B

Monitoring Period: 02/01/01 To 02/28/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	8.7	41 mg/kg	75 mg/kg
Cadmium	7.4	39 mg/kg	85 mg/kg
Copper	850	1500 mg/kg	4300 mg/kg
Lead	43	300 mg/kg	840 mg/kg
Mercury	2.2	17 mg/kg	57 mg/kg
Molybdenum	11	N/A ²	75 mg/kg
Nickel	71	420 mg/kg	420 mg/kg
Selenium ³	10	100 mg/kg	100 mg/kg
Zinc	740	2800 mg/kg	7500 mg/kg
Average Percent Solids	23	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B _____

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: 

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-1**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Reclamation Plant #1,
Fountain Valley, CA - EQ Class B

Monitoring Period : 03/01/01 **To** 03/31/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	8.1	41 mg/kg	75 mg/kg
Cadmium	37	39 mg/kg	85 mg/kg
Copper	1,100	1500 mg/kg	4300 mg/kg
Lead	60	300 mg/kg	840 mg/kg
Mercury	1.9	17 mg/kg	57 mg/kg
Molybdenum	15	N/A ²	75 mg/kg
Nickel	240	420 mg/kg	420 mg/kg
Selenium ³	12	100 mg/kg	100 mg/kg
Zinc	900	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B X

C. Vector Attraction Reduction (40 CFR 503.33) – Please indicate the option performed.

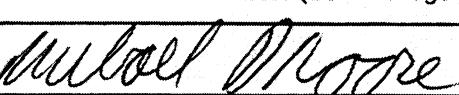
Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: 5/31/01

Prepared by L. Baroldi/K. Stearns

NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-2

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Wastewater Treatment Plant #2,
 Huntington Beach, CA - EQ Class B

Monitoring Period: 03/01/01 To 03/31/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	8.8	41 mg/kg	75 mg/kg
Cadmium	9.5	39 mg/kg	85 mg/kg
Copper	820	1500 mg/kg	4300 mg/kg
Lead	53	300 mg/kg	840 mg/kg
Mercury	2.0	17 mg/kg	57 mg/kg
Molybdenum	14	N/A ²	75 mg/kg
Nickel	89	420 mg/kg	420 mg/kg
Selenium ³	10	100 mg/kg	100 mg/kg
Zinc	790	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B _____

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

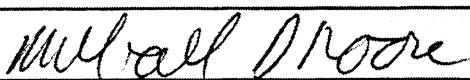
Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: <u>5/31/01</u>

Prepared by L. Baroldi/K. Steams

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-1**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Reclamation Plant #1,
Fountain Valley, CA - EQ Class B

Monitoring Period: 04/01/01 To 04/30/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	6.9	41 mg/kg	75 mg/kg
Cadmium	30	39 mg/kg	85 mg/kg
Copper	900	1500 mg/kg	4300 mg/kg
Lead	58	300 mg/kg	840 mg/kg
Mercury	1.9	17 mg/kg	57 mg/kg
Molybdenum	15	N/A ²	75 mg/kg
Nickel	230	420 mg/kg	420 mg/kg
Selenium ³	5.4	100 mg/kg	100 mg/kg
Zinc	770	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A Class B X

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

Option 1 X Option 2 Option 3 Option 4 Option 5 Option 6

Option 7 Option 8 Option 9 Option 11

No Vector attraction reductions were performed

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: <u>5/31/01</u>

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-2**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Wastewater Treatment Plant #2,
Huntington Beach, CA - EQ Class B

Monitoring Period: 04/01/01 To 04/30/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	7.7	41 mg/kg	75 mg/kg
Cadmium	10	39 mg/kg	85 mg/kg
Copper	810	1500 mg/kg	4300 mg/kg
Lead	42	300 mg/kg	840 mg/kg
Mercury	1.6	17 mg/kg	57 mg/kg
Molybdenum	14	N/A ²	75 mg/kg
Nickel	94	420 mg/kg	420 mg/kg
Selenium ³	6.7	100 mg/kg	100 mg/kg
Zinc	750	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B X

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

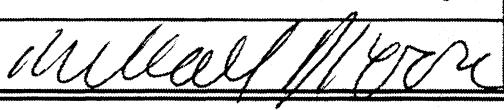
Option 1 X Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: <u>5/31/01</u>

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-1**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Reclamation Plant #1,
Fountain Valley, CA - EQ Class B

Monitoring Period : 06/01/01 To 06/30/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	5.5	41 mg/kg	75 mg/kg
Cadmium	17	39 mg/kg	85 mg/kg
Copper	760	1500 mg/kg	4300 mg/kg
Lead	67	300 mg/kg	840 mg/kg
Mercury	1.8	17 mg/kg	57 mg/kg
Molybdenum	20	N/A ²	75 mg/kg
Nickel	230	420 mg/kg	420 mg/kg
Selenium ³	22	100 mg/kg	100 mg/kg
Zinc	810	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) – Please indicate level achieved.

Class A _____ Class B X

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

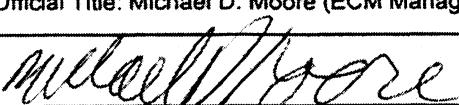
Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: 8/15/01

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-2**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Wastewater Treatment Plant #2,
Huntington Beach, CA - EQ Class B

Monitoring Period: 06/01/01 To 06/30/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	7.6	41 mg/kg	75 mg/kg
Cadmium	9.8	39 mg/kg	85 mg/kg
Copper	670	1500 mg/kg	4300 mg/kg
Lead	38	300 mg/kg	840 mg/kg
Mercury	1.7	17 mg/kg	57 mg/kg
Molybdenum	17	N/A ²	75 mg/kg
Nickel	98	420 mg/kg	420 mg/kg
Selenium ³	12	100 mg/kg	100 mg/kg
Zinc	810	2800 mg/kg	7500 mg/kg
Average Percent Solids	23	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B _____

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

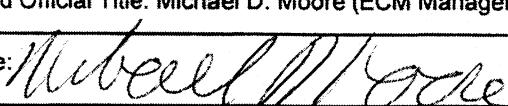
Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: 8/15/01

Prepared by L. Baroldi/K. Stearns

Notice and Necessary Information
 To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA
 Monitoring Period 07/01/01 to 07/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	3.7	13	820	57	1.7	21	237	10	817	10,900	3,100	23
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): Jul 10, 18, and 24

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 18.2 to 27 days at 99 to 100 degrees F / C (range for past month)
 Class B: time (days) \geq 68° or 95°(temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
 Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
 Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
 Class B: geometric mean of seven samples is < 2,000,000 mpn
- lime stabilization: pH at 2 hours after addition = _____
 Class B: pH 2 hours after addition of lime is \geq 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 7.54 % VS_{out} = 4.5 %VSR = 60
 VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = after days
 VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
- Option 4: SOUR =
 VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted days at temps of to degrees F/C (attach times/temps)
 VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
 VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs
- Option 7: % solids = Stabilization method: _____
 VAR: stabilized solids > 75%
- Option 8: % solids =
 VAR: unstabilized solids > 90%
- Option 9/10: Applier will inject/incorporate within hours
 VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 9/17/01

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #2, Huntington Beach, CA
Monitoring Period 07/01/01 to 07/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	4.0	10	693	37	2.1	17	123	15	817	16,900	4,100	22
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): Jul 10, 18, and 24

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 17.1 to 43.2 days at 97 to 100 degrees F / C (range for past month)
 Class B: time (days) ≥ 68 or 95° (temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
 Class B: time (days) $\geq 120 - 4$ (temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
 Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
 Class B: geometric mean of seven samples is < 2,000,000 mpn
- lime stabilization: pH at 2 hours after addition = _____
 Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 7.99 % VS_{out} = 5.11 %VSR = 64
 VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = after days
 VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
- Option 4: SOUR =
 VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted days at temps of to degrees F/C (attach times/temps)
 VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
 VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
- Option 7: % solids = Stabilization method: _____
 VAR: stabilized solids > 75%
- Option 8: % solids =
 VAR: unstabilized solids > 90%
- Option 9/10: Applier will inject/incorporate within hours
 VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 9/17/01

Metals	10-Jul-01				18-Jul-01				24-Jul-01				Monthly Mean					
	Dry Wt.		Dry Wt.		Dry Wt.		Dry Wt.		Dry Wt.		Dry Wt.		Dry Wt.		Dry Wt.			
	Plt. 1	Result	RL	Plt. 2	Result	RL	Plt. 1	Result	RL	Plt. 2	Result	RL	Plt. 1	RL	Plt. 2	RL		
%TS	24	0.010		23	0.010		22	0.010		22	0.010		23	0.010	22	0.010		
Aluminum	17,000	42		12,000	22		--	--		--	--		--	--	17,000	42	12,000	
Antimony	ND	17		ND	8.7		--	--		--	--		--	--	ND	17	ND	
Arsenic	4.2	1.7		3.9	0.87		4.0	0.93		4.4	0.91		2.8	1.7	3.6	1.8	3.7	1.7
Barium	520	8.3		870	4.3		--	--		--	--		--	--	520	8.3	870	
Beryllium	ND	0.83		ND	0.43		--	--		--	--		--	--	ND	0.83	ND	
Cadmium	15	1.7		11	0.87		13	0.93		9.5	0.91		9.8	1.7	9.9	1.8	13	1.7
Chromium Hexavalent	ND	0.42		ND	0.43		--	--		--	--		--	--	ND	0.42	ND	
Chromium, total	250	6.7		170	3.5		220	3.7		160	3.7		180	6.9	160	7.3	217	6.9
Cobalt	ND	8.3		ND	4.3		--	--		--	--		--	--	ND	8.3	ND	
Copper	910	4.2		660	2.2		860	2.3		720	2.3		690	4.3	700	4.5	820	4.3
Iron	54,000	50		37,000	26		--	--		--	--		--	--	54,000	50	37,000	
Lead	62	17		36	8.7		57	9.3		38	9.1		53	17	38	18	57	17
Mercury	1.7	0.083		1.7	0.087		1.7	0.093		2.2	0.091		1.7	0.086	2.3	0.091	1.7	0.093
Molybdenum	23	8.3		16	4.3		22	4.6		18	4.6		18	8.6	17	9.1	21	8.6
Nickel	270	8.3		120	4.3		240	4.6		120	4.6		200	8.6	130	9.1	237	8.6
Potassium	1,100	250		1,100	130		--	--		--	--		--	--	1,100	250	1,100	
Selenium	6.2	2.5		ND	1.3		ND	1.4		ND	1.4		13	2.6	15	2.7	10	2.6
Silver	61	2.5		35	1.3		--	--		--	--		--	--	61	2.5	35	
Sodium	1,400	170		2,700	87		--	--		--	--		--	--	1,400	170	2,700	
Sulfur	RP	--		RP	--		--	--		--	--		--	--	--	--	--	
Thallium	ND	25		ND	13		--	--		--	--		--	--	ND	25	ND	
Vanadium	23	8.3		22	4.3		--	--		--	--		--	--	23	8.3	22	
Zinc	870	2.5		780	1.3		820	1.4		810	1.4		760	2.6	860	2.7	817	2.6
Ammonia	3,100	210		4,100	220		--	--		--	--		--	--	3,100	210	4,100	
Cyanide	3.9	2.1		2.7	2.2		--	--		--	--		--	--	3.9	2.1	2.7	
Fluoride	ND	62		ND	65		--	--		--	--		--	--	ND	62	ND	
Nitrate-N	ND	21		ND	22		--	--		--	--		--	--	ND	21	ND	
pH	8.33	--		8.28	--		--	--		--	--		--	--	8.33	--	8.28	
Total Kjeldahl Nitrogen	14,000	100		21,000	110		--	--		--	--		--	--	14,000	100	21,000	
Dioxin (pg/g)	ND	1.1		ND	1.0		--	--		--	--		--	--	ND	1.1	ND	
PCB 1016 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	
PCB 1221 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	
PCB 1232 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	
PCB 1242 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	
PCB 1248 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	
PCB 1254 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	
PCB 1260 (ug/kg)	ND	1,400		ND	1,400		--	--		--	--		--	--	ND	1,400	ND	

ND - Not Detected

RL - Reporting Limit

RP - Results Pending

All biosolids inorganic test results are expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

* - Quality control results were outside acceptable limits

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA
 Monitoring Period 08/01/01 to 08/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	4.6	11	713	57	2.0	19	157	12	767	7,800	3,200	23
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): August 7, 14, 21, and 22

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 21.6 to 29.5 days at 99 to 99 degrees F / C (range for past month)
 Class B: time (days) $\geq 68^\circ$ or 95° (temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
 Class B: time (days) $\geq 120 - 4$ (temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
 Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
 Class B: geometric mean of seven samples is < 2,000,000 mpn
- lime stabilization: pH at 2 hours after addition = _____
 Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.51 % VS_{out} = .94 %VSR = 62.3
 VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = _____ after _____ days
 VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
- Option 4: SOUR = _____
 VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted _____ days at temps of _____ to _____ degrees F/C (attach times/temps)
 VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: _____ pH after 2 hours = _____ pH after 22 hours = _____
 VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
- Option 7: % solids = _____ Stabilization method: _____
 VAR: stabilized solids > 75%
- Option 8: % solids = _____
 VAR: unstabilized solids > 90%
- Option 9/10: Applier will inject/incorporate within _____ hours
 VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore

Date: 10/18/01

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #2, Huntington Beach, CA
Monitoring Period 08/01/01 to 08/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	5.1	9.5	697	61	2.3	18	120	7.0	893	5,900	2,700	22
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): August 7, 14, 21, and 22

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 16.8 to 48.9 days at 97 to 100 degrees F / C (range for past month)
Class B: time (days) $\geq 68^\circ$ or 95° (temp, degrees F) for times between 15 or 60 days
 aerobic digestion for to days at to degrees F / C (range for past month)
Class B: time (days) $\geq 120 - 4$ (temp, degrees C) for times between 40 and 60 days
 drying beds for to months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
 fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
 lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.64 % VS_{out} = 1.1 %VSR = 65
VAR: VSR > 38%
 Option 2/3: Bench scale test: % VSR = _____ after _____ days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
 Option 4: SOUR = _____
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
 Option 5: Composted _____ days at temps of _____ to _____ degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
 Option 6: time alkali added: _____ pH after 2 hours = _____ pH after 22 hours = _____
VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
 Option 7: % solids = _____ Stabilization method: _____
VAR: stabilized solids > 75%
 Option 8: % solids = _____
VAR: unstabilized solids > 90%
 Option 9/10: Applier will inject/incorporate within _____ hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 10/18/01

Metals	7-Aug-01				14-Aug-01				21-Aug-01		22-Aug-01		Monthly Mean			
	Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Plt. 1	RL	Plt. 2	RL
%TS	22	0.010	22	0.010	24	0.010	21	0.010	23	0.010	23	0.010	23	0.010	22	0.010
Aluminum	14,000	23	14,000	23	--	--	--	--	--	--	--	--	14,000	23	14,000	23
Antimony	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	5.1	0.93	7.8	0.91	4.1	1.6	5.2	0.96	ND	1.8	2.2	0.86	4.6	1.8	5.1	0.96
Barium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	12	0.93	10	0.91	8.8	1.6	9.0	0.96	11	1.8	9.4	0.86	11	1.8	9.5	0.96
Chromium Hexavalent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, total	190	3.7	140	3.7	130	6.6	130	3.8	140	7.1	130	3.4	153	7.1	133	3.8
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	810	2.3	740	2.3	620	4.1	680	2.4	710	4.4	670	2.1	713	4.4	697	2.4
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	57	9.3	39	9.1	62	16	58	9.6	51	18	86	8.6	57	18	61	9.6
Mercury	1.8	0.093	1.7	0.091	2.1	0.082	2.9	0.096	2.2	0.089	2.3	0.086	2.0	0.093	2.3	0.096
Molybdenum	21	4.6	19	4.6	15	8.2	17	4.8	20	8.9	18	4.3	19	8.9	18	4.8
Nickel	190	4.6	140	4.6	140	8.2	110	4.8	140	8.9	110	4.3	157	8.9	120	4.8
Potassium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	6.7	1.4	6.1	1.4	10	2.5	6.6	1.4	19	2.7	8.3	1.3	12	2.7	7.0	1.4
Silver	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	860	1.4	940	1.4	850	2.5	820	1.4	780	2.7	920	1.3	767	2.7	893	1.4
Ammonia	3,200	230	2,700	230	--	--	--	--	--	--	--	--	3,200	230	2,700	230
Nitrate-N	ND	23	ND	23	--	--	--	--	--	--	--	--	ND	23	ND	23
pH	8.20	--	8.16	--	--	--	--	--	--	--	--	--	8.20	--	8.16	--
Total Kjeldahl Nitrogen	11,000	25	8,600	25	--	--	--	--	--	--	--	--	11,000	25	8,600	25
Dioxin (pg/g)	ND	0.90	ND	0.85	--	--	--	--	--	--	--	--	ND	0.90	ND	0.85
PCB 1016 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000
PCB 1221 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000
PCB 1232 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000
PCB 1242 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000
PCB 1248 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000
PCB 1254 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000
PCB 1260 (ug/kg)	ND	15,000	ND	14,000	--	--	--	--	--	--	--	--	ND	15,000	ND	14,000

ND - Not Detected

RL - Reporting Limit

All biosolids inorganic test results are expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

* - Quality control results were outside acceptable limits

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA
Monitoring Period 09/01/01 to 09/30/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	4.8	12	540	43	2.0	16	140	7.2	630	7,300	2,000	22
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): September 4, 11, 12, 18

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 17.7 to 27 days at 97 to 100 degrees F / C (range for past month)
Class B: time (days) \geq 95° or 68° (temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
- lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is \geq 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.49 % VS_{out} = .94 %VSR = 63.0
VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = after days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
- Option 4: SOUR =
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted days at temps of to degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs
- Option 7: % solids = Stabilization method: _____
VAR: stabilized solids > 75%
- Option 8: % solids =
VAR: unstabilized solids > 90%
- Option 9/10: Applier will inject/incorporate within hours
VAR: injection within 1 hour, incorporation within 6 hours

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Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael Moore Date: 11/16/01

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #2, Huntington Beach, CA
Monitoring Period 09/01/01 to 09/30/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	7.5	9.9	650	69	1.9	17	120	7.1	840	20,800	2,200	22
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): September 4, 11, 12, 18

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

anaerobic digestion for 18.2 to 164.4* days at 97 to 100 degrees F / C (range for past month)

Class B: time (days) \geq 95° or 68° (temp, degrees F) for times between 15 or 60 days

aerobic digestion for to days at to degrees F / C (range for past month)

Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days

drying beds for to months (attach records of dates in and out)

Class B: time > 3 months; 2 months > 0 degrees C

fecal coliform: geometric mean of seven samples = _____ (attach lab results)

Class B: geometric mean of seven samples is < 2,000,000 mpn

lime stabilization: pH at 2 hours after addition = _____

Class B: pH 2 hours after addition of lime is \geq 12

*High detention time due to one day of limited flow to a digester

3. Vector Attraction Reduction:

Option 1: % VS_{in} = 1.66 % VS_{out} = 1.10 %VSR = 66.5
VAR: VSR > 38%

Option 2/3: Bench scale test: % VSR = after days

VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)

Option 4: SOUR = _____

VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)

Option 5: Composted days at temps of to degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/S days > 45 degrees C

Option 6: time alkali added: pH after 2 hours = pH after 22 hours =

VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs

Option 7: % solids = Stabilization method: _____

VAR: stabilized solids > 75%

Option 8: % solids =

VAR: unstabilized solids > 90%

Option 9/10: Applier will inject/incorporate within hours

VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 11/16/01

Summary of Biosolids Priority Pollutants

Metals	4-Sep-01				11-Sep-01				12-Sep-01				18-Sep-01				Monthly Mean			
	Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2		Dry Wt. Plt. 1		Dry Wt. Plt. 2	
	Result	RL	Plt. 1	RL	Plt. 2	RL														
%TS	22	0.010	22	0.010	22	0.010	22	0.010	—	—	—	—	22	0.010	23	0.010	22	0.010	22	0.010
Aluminum	14,000	22	13,000	23	—	—	—	—	—	—	—	—	—	—	—	—	14,000	22	13,000	23
Arsenic	5.7	0.89	7.8	0.92	3.9	1.8	7.3	0.91	—	—	—	—	4.8	1.8	7.4	0.88	4.8	1.8	7.5	0.92
Cadmium	12	0.89	9.7	0.92	8.9	1.8	8.9	0.91	—	—	—	—	14	1.8	11	0.88	12	1.8	9.9	0.92
Chromium, total	120	3.6	110	3.7	77	7.4	100	3.6	—	—	—	—	88	7.3	110	3.5	95	7.4	110	3.7
Copper	670	2.2	640	2.3	440	4.6	620	2.3	—	—	—	—	520	4.5	700	2.2	540	4.6	650	2.3
Lead	52	8.9	77	9.2	36	18	67	9.1	—	—	—	—	40	18	62	8.8	43	18	69	9.2
Mercury	2.0	0.089	1.6	0.092	2.0	0.092	1.8	0.091	—	—	—	—	1.9	0.091	2.2	0.088	2.0	0.092	1.9	0.092
Molybdenum	20	4.4	15	4.6	13	9.2	16	4.5	—	—	—	—	16	9.1	20	4.4	16	9.2	17	4.6
Nickel	160	4.4	100	4.6	120	9.2	110	4.5	—	—	—	—	140	9.1	140	4.4	140	9.2	120	4.6
Selenium	9.1	1.3	8.3	1.4	5.8	2.8	6.2	1.4	—	—	—	—	6.8	2.7	6.7	1.3	7.2	2.8	7.1	1.4
Zinc	740	1.3	840	1.4	530	2.8	810	1.4	—	—	—	—	630	2.7	880	1.3	630	2.8	840	1.4
Ammonia	2,000	220	2,200	230	—	—	—	—	—	—	—	—	—	—	—	—	2,000	220	2,200	230
Nitrate-N	ND	22	ND	23	—	—	—	—	—	—	—	—	—	—	—	—	ND	22	ND	23
pH	8.08	—	8.09	—	—	—	—	—	—	—	—	—	—	—	—	—	8.08	—	8.09	—
Total Kjeldahl Nitrogen	9,300 *	22	23,000 *	23	—	—	—	—	—	—	—	—	—	—	—	—	9,300	22	23,000	23
Dioxin (pg/g)	—	—	—	—	—	—	—	—	ND	2.6	ND	1.0	—	—	—	—	ND	2.6	ND	1.0
PCB 1016 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400
PCB 1221 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400
PCB 1232 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400
PCB 1242 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400
PCB 1248 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400
PCB 1254 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400
PCB 1260 (ug/kg)	—	—	—	—	—	—	—	—	ND	1,300	ND	1,400	—	—	—	—	ND	1,300	ND	1,400

ND - Not Detected

RL - Reporting Limit

* - Poor matrix spike precision and recovery

All biosolids inorganic test results are expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

RP - Results Pending

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA
Monitoring Period 10/01/01 to 10/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	6.2	16	760	46	2.3	18	153	15	780	48,800	1,200	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): October 2, 9, 16, 23

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 20.3 to 28.8 days at 99 to 99 degrees F / C (range for past month)
Class B: time (days) \geq 95° or 68° (temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
- lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is \geq 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.41 % VS_{out} = 0.89 %VSR = 63.0
VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = after days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
- Option 4: SOUR =
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted days at temps of to degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs
- Option 7: % solids = Stabilization method: _____
VAR: stabilized solids > 75%
- Option 8: % solids =
VAR: unstabilized solids > 90%
- Option 9/10: Applier will inject/incorporate within hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 1/25/02

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #2, Huntington Beach, CA
Monitoring Period 10/01/01 to 10/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH4-N	% solids
Result	7.2	10	680	56	2.4	16	110	12	840	41,700	1,300	23
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): October 2, 9, 16, 23

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 16.3 to 37.9 days at 97 to 99 degrees F / C (range for past month)
Class B: time (days) \geq 95° or 68° (temp, degrees F) for times between 15 or 60 days
 aerobic digestion for _____ to _____ days at _____ to _____ degrees F / C (range for past month)
Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days
 drying beds for _____ to _____ months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
 fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
 lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is \geq 12

3. Vector Attraction Reduction:

- Option 1: % VSin = 1.69 % VSout = 1.08 %VSR = 63.8
VAR: VSR > 38%
 Option 2/3: Bench scale test: % VSR = _____ after _____ days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
 Option 4: SOUR = _____
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
 Option 5: Composted _____ days at temps of _____ to _____ degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
 Option 6: time alkali added: _____ pH after 2 hours = _____ pH after 22 hours = _____
VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs
 Option 7: % solids = _____ Stabilization method: _____
VAR: stabilized solids > 75%
 Option 8: % solids = _____
VAR: unstabilized solids > 90%
 Option 9/10: Applier will inject/incorporate within _____ hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 11/25/02

Summary of Biosolids Priority Pollutants

Metals	2-Oct-01				8-Oct-01				16-Oct-01				23-Oct-01				Monthly Mean					
	Dry Wt Pt. 1	Dry Wt Pt. 2	Result RL	Result RL	Dry Wt Pt. 1	Dry Wt Pt. 2	Result RL	Result RL	Dry Wt Pt. 1	Dry Wt Pt. 2	Result RL	Result RL	Dry Wt Pt. 1	Dry Wt Pt. 2	Result RL	Dry Wt Pt. 1	Dry Wt Pt. 2	Result RL	Dry Wt Pt. 1	Dry Wt Pt. 2	Result RL	
% TS	22	0.010	23	0.010	22	0.010	23	0.010	20	0.010	22	0.010	19	0.010	22	0.010	21	0.010	23	0.010	23	0.010
Aluminum	14,000	46	15,000	22	-	-	-	-	-	-	-	-	-	-	-	-	14,000	46	15,000	46	15,000	22
Antimony	ND	18	ND	8.9	-	-	-	-	-	-	-	-	-	-	-	-	ND	18	ND	18	ND	8.9
Arsenic	5.4	1.8	7.1	0.89	5.5	0.90	6.6	0.89	7.2	1.0	7.9	0.93	6.5	1.0	7.3	0.91	6.2	1.8	7.2	0.9	7.2	0.9
Barium	410	9.1	950	4.4	-	-	-	-	-	-	-	-	-	-	-	-	410	9.1	950	4.4	950	4.4
Boron	ND	0.91	ND	0.44	-	-	-	-	-	-	-	-	-	-	-	-	ND	0.91	ND	0.91	ND	0.44
Cadmium	14	1.8	11	0.89	14	0.90	9.7	0.89	17	1.0	9.7	0.93	17	1.0	10	0.91	16	1.8	10	0.9	16	1.8
Chromium Hexavalent	ND	0.46	ND	0.44	-	-	-	-	-	-	-	-	-	-	-	-	ND	0.46	ND	0.46	ND	0.44
Chromium, total	90	7.3	110	3.5	93	3.6	98	3.6	110	4.0	100	3.7	130	4.1	110	3.7	110	7.3	100	3.7	100	3.7
Cobalt	ND	9.1	ND	4.4	-	-	-	-	-	-	-	-	-	-	-	-	ND	9.1	ND	9.1	ND	4.4
Copper	630	4.6	730	2.2	740	2.3	650	2.2	820	2.5	670	2.3	850	2.6	680	2.3	760	4.6	680	4.6	680	2.3
Iron	40,000	55	38,000	27	-	-	-	-	-	-	-	-	-	-	-	-	40,000	55	39,000	55	39,000	27
Lead	39	18	54	8.9	45	9.0	50	8.9	48	10	56	9.3	50	10	56	9.1	46	18	56	9.1	56	9
Mercury	1.7	0.091	1.6	0.089	2.4	0.090	3.4	0.089	2.3	0.50	2.8	0.93	2.6	0.10	1.9	0.091	2.3	0.50	2.4	0.09	2.3	0.09
Molybdenum	15	9.1	17	4.4	18	4.5	16	4.4	19	5.0	15	4.6	21	5.2	14	4.6	18	9.1	16	9.1	16	4.6
Nickel	140	9.1	120	4.4	150	4.5	110	4.4	150	5.0	110	4.6	170	5.2	100	4.6	153	9.1	110	4.6	153	9.1
Potassium	880	270	1100	130	-	-	-	-	-	-	-	-	-	-	-	-	680	270	1100	130	680	270
Selenium	9.1	2.7	11	1.3	11	1.4	9.6	1.3	17	1.5	8.5	1.4	21	1.6	19	1.4	15	2.7	12	1.4	15	2.7
Silver	45	2.7	43	1.3	-	-	-	-	-	-	-	-	-	-	-	-	45	2.7	43	1.3	45	2.7
Sodium	710	160	2,700	89	-	-	-	-	-	-	-	-	-	-	-	-	710	160	2,700	89	25,350	5,00
Sulfur	25,350	5.00	35,570	5.00	-	-	-	-	-	-	-	-	-	-	-	-	25,350	5,00	35,570	5,00	35,570	5,00
Thallium	ND	27	ND	13	-	-	-	-	-	-	-	-	-	-	-	-	ND	27	ND	13	ND	13
Vanadium	16	0.1	31	4.4	-	-	-	-	-	-	-	-	-	-	-	-	16	0.1	31	4.4	16	0.1
Zinc	680	2.7	870	1.3	760	1.4	810	1.3	810	1.5	860	1.4	860	1.6	830	1.4	780	2.7	840	1.4	840	1.4
Ammonia	1,200	230	1,300	220	-	-	-	-	-	-	-	-	-	-	-	-	1,200	230	1,300	220	1,300	220
Cyanide	ND	2.3	ND	2.2	-	-	-	-	-	-	-	-	-	-	-	-	ND	2.3	ND	2.2	ND	2.2
Fluoride	ND	69	ND	66	-	-	-	-	-	-	-	-	-	-	-	-	ND	69	ND	66	ND	66
Nitrate-N	ND	23	ND	22	-	-	-	-	-	-	-	-	-	-	-	-	ND	23	ND	22	ND	22
pH	6.13	-	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	8.13	-	8.26	-	8.26	-
Total Kjeldahl Nitrogen	50,000	1,800	43,000	1,800	-	-	-	-	-	-	-	-	-	-	-	-	50,000	1,800	43,000	1,800	43,000	1,800
Organic Lead	ND	4.6	ND	4.4	-	-	-	-	-	-	-	-	-	-	-	-	ND	4.6	ND	4.4	ND	4.4
Dioxin (ng/g)	ND	1.1	ND	1.2	-	-	-	-	-	-	-	-	-	-	-	-	ND	1.1	ND	1.2	ND	1.2
PCB 1016 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500
PCB 1221 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500
PCB 1232 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500
PCB 1242 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500
PCB 1248 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500
PCB 1254 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500
PCB 1260 (ug/g)	ND	1,800	ND	1,500	-	-	-	-	-	-	-	-	-	-	-	-	ND	1,800	ND	1,500	ND	1,500

All biosolids inorganic test results are expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

ND - Not Detected

RL - Reporting Limit

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA
Monitoring Period 11/01/01 to 11/30/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	4.6	13	710	41	2.1	18	180	4.1	730	51,200	2,800	22
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): November 6, 13, 20

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 21.7 to 29.6 days at 98.6 to 99 degrees F / C (range for past month)
Class B: time (days) ≥ 95° or 68° (temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
Class B: time (days) ≥ 120 - 4(temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
- lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.39 % VS_{out} = 0.90 %VSR = 65.1
VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = _____ after _____ days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
- Option 4: SOUR = _____
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted _____ days at temps of _____ to _____ degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: _____ pH after 2 hours = _____ pH after 22 hours = _____
VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
- Option 7: % solids = _____ Stabilization method: _____
VAR: stabilized solids > 75%
- Option 8: % solids = _____
VAR: unstabilized solids > 90%
- Option 9/10: Applier will inject/incorporate within _____ hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 1/23/02

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #2, Huntington Beach, CA
Monitoring Period 11/01/01 to 11/30/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH4-N	% solids
Result	6.3	9.1	650	40	1.7	12	89	3.9	790	47,000	3,000	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): November 6, 13, 20

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

anaerobic digestion for 19.9 to 31.4 days at 96.3 to 99 degrees F / C (range for past month)

Class B: time (days) \geq 95° or 68° (temp, degrees F) for times between 15 or 60 days

aerobic digestion for to days at to degrees F / C (range for past month)

Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days

drying beds for to months (attach records of dates in and out)

Class B: time > 3 months; 2 months > 0 degrees C

fecal coliform: geometric mean of seven samples = (attach lab results)

Class B: geometric mean of seven samples is < 2,000,000 mpn

lime stabilization: pH at 2 hours after addition =

Class B: pH 2 hours after addition of lime is \geq 12

3. Vector Attraction Reduction:

Option 1: % VS_{in} = 1.74 % VS_{out} = 1.06 %VSR = 61.2
VAR: VSR > 38%

Option 2/3: Bench scale test: % VSR = after days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)

Option 4: SOUR =
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)

Option 5: Composted days at temps of to degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C

Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs

Option 7: % solids = Stabilization method:
VAR: stabilized solids > 75%

Option 8: % solids =
VAR: unstabilized solids > 90%

Option 9/10: Applier will inject/incorporate within hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 1/25/02

Summary of Biosolids Priority Pollutants

November 2001

Constituent	Units	11/06/2001		11/13/2001		11/20/2001		Monthly Mean	
		Dry Wt. P1_CAKE Result	Dry Wt. P2_CAKE Result						
Total Solids	%	21 0.010	21 0.010	23 0.010	23 0.010	21 0.010	20 0.010	22 0.010	21 0.010
Nitrate-N	mg/kg dry weight	ND 24	ND 23	-- --	-- --	-- --	-- --	ND 24	ND 23
Ammonia-N	mg/kg dry weight	2,800 240	3,000 230	-- --	-- --	-- --	-- --	2,800 240	3,000 230
TKN	mg/kg dry weight	54,000 1,800	50,000 1,800	-- --	-- --	-- --	-- --	54,000 1,800	50,000 1,800
Aluminum	mg/kg dry weight	17,000 24	14,000 23	-- --	-- --	-- --	-- --	17,000 24	14,000 23
Arsenic	mg/kg dry weight	5.4 0.97	7.4 0.94	3.6 0.86	4.6 0.88	4.7 0.97	6.8 0.99	4.6 0.97	6.3 0.99
Cadmium	mg/kg dry weight	15 0.97	11 0.94	9.6 0.86	6.9 0.88	13 0.97	9.5 0.99	13 0.97	9.1 0.99
Chromium	mg/kg dry weight	130 3.9	130 3.8	82 3.4	94 3.5	120 3.9	130 4.0	110 3.9	120 4.0
Copper	mg/kg dry weight	830 2.4	730 2.3	520 2.2	530 2.2	770 2.4	690 2.5	710 2.4	650 2.5
Lead	mg/kg dry weight	46 9.7	50 9.4	32 8.6	31 8.8	46 9.7	40 9.9	41 9.7	40 9.9
Molybdenum	mg/kg dry weight	21 4.9	14 4.7	14 4.3	9.2 4.4	20 4.8	13 5.0	18 4.9	12 5.0
Nickel	mg/kg dry weight	190 4.9	100 4.7	150 4.3	72 4.4	200 4.8	94 5.0	180 4.9	89 5.0
Zinc	mg/kg dry weight	850 1.5	910 1.4	550 1.3	600 1.3	800 1.5	870 1.5	730 1.5	790 1.5
Mercury	mg/kg dry weight	2.2 0.097	1.8 0.094	1.3 0.086	1.6 0.088	2.7 0.097	1.8 0.099	2.1 0.097	1.7 0.099
Selenium	mg/kg dry weight	5.4 1.5	4.9 1.4	1.9 1.3	2.2 1.3	5.1 1.5	4.5 1.5	4.1 1.5	3.9 1.5
PCB 1016	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
PCB 1221	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
PCB 1232	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
PCB 1242	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
PCB 1248	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
PCB 1254	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
PCB 1260	ug/kg dry	ND 3,000	ND 3,100	-- --	-- --	-- --	-- --	ND 3,000	ND 3,100
Dioxin	pg/g dry	ND 0.96	ND 1.8	-- --	-- --	-- --	-- --	ND 0.96	ND 1.8
pH	units	8.43 --	8.43 --	-- --	-- --	-- --	-- --	8.43 --	8.43 --

ND - Not Detected

RL - Reporting Limit

Notice and Necessary Information
 To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA
 Monitoring Period 12/01/01 to 12/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH ₄ -N	% solids
Result	4.6	11	730	44	2.4	18	130	5.3	780	60,200	1,800	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): December 4, 11, 18

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 17.6 to 29.3 days at 98.6 to 99.2 degrees F / C (range for past month)
 Class B: time (days) $\geq 95^\circ$ or 68° (temp, degrees F) for times between 15 or 60 days
- aerobic digestion for to days at to degrees F / C (range for past month)
 Class B: time (days) $\geq 120 - 4$ (temp, degrees C) for times between 40 and 60 days
- drying beds for to months (attach records of dates in and out)
 Class B: time > 3 months; 2 months > 0 degrees C
- fecal coliform: geometric mean of seven samples = _____ (attach lab results)
 Class B: geometric mean of seven samples is $< 2,000,000$ mpn
- lime stabilization: pH at 2 hours after addition = _____
 Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.4 % VS_{out} = .85 %VSR = 64.6
 VAR: VSR > 38%
- Option 2/3: Bench scale test: % VSR = after days
 VAR: additional VSR $< 17\%$ after 40 days(anaerobic), $< 15\%$ after 30 days (aerobic)
- Option 4: SOUR =
 VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
- Option 5: Composted days at temps of to degrees F/C (attach times/temps)
 VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
- Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
 VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
- Option 7: % solids = Stabilization method: _____
 VAR: stabilized solids $> 75\%$
- Option 8: % solids =
 VAR: unstabilized solids $> 90\%$
- Option 9/10: Applier will inject/incorporate within hours
 VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael D. Moore Date: 2/06/02

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Name: Orange County Sanitation District Reclamation Plant #2, Huntington Beach, CA
Monitoring Period 12/01/01 to 12/31/01

1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH4-N	% solids
Result	5.7	10	680	39	1.7	13	92	4.8	830	38,800	1,200	22
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na

Sampling date(s): December 4, 11, 18

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

- anaerobic digestion for 17.8 to 27.6 days at 97.2 to 99 degrees F / C (range for past month)
Class B: time (days) \geq 95° or 68° (temp, degrees F) for times between 15 or 60 days
 aerobic digestion for to days at to degrees F / C (range for past month)
Class B: time (days) \geq 120 - 4(temp, degrees C) for times between 40 and 60 days
 drying beds for to months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
 fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
 lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is \geq 12

3. Vector Attraction Reduction:

- Option 1: % VS_{in} = 1.7 % VS_{out} = 1.05 %VSR = 61.3
VAR: VSR > 38%
 Option 2/3: Bench scale test: % VSR = after days
VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
 Option 4: SOUR =
VAR: SOUR < 1.5 mg O₂/hr/gram (dry weight)
 Option 5: Composted days at temps of to degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
 Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
VAR: pH \geq 12 for 2 hours after alkali addition, \geq 11.5 for additional 22 hrs
 Option 7: % solids = Stabilization method: _____
VAR: stabilized solids > 75%
 Option 8: % solids =
VAR: unstabilized solids > 90%
 Option 9/10: Applier will inject/incorporate within hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Michael D. Moore, Environmental Compliance and Monitoring Manager

Phone: (714) 593-7450 E-mail: mmoore@ocsd.com

Signature: Michael Moore Date: 2/06/02

Summary of Biosolids Priority Pollutants

December 2001

Constituent	Units	12/04/2001				12/11/2001				12/18/2001				Monthly Mean			
		Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.	Dry Wt.		
		P1_CAKE	P2_CAKE	P1_CAKE	P2_CAKE	P1_CAKE	P2_CAKE	P1_CAKE	P2_CAKE	P1_CAKE	P2_CAKE	P1_CAKE	P2_CAKE	P1_CAKE	P2_CAKE		
Total Solids	%	22	0.010	26	0.010	20	0.010	20	0.010	21	0.010	20	0.010	21	0.010	22	0.010
2,3,7,8-TCDD	pg/g dry weight	ND	3.8	ND	3.1	--	--	--	--	--	--	--	ND	3.8	ND	3.1	
2',3,4,4',5-PeCB	ug/kg dry	ND	0.11	ND	0.12	--	--	--	--	--	--	--	ND	110	ND	120	
2,2',3,3',4,4',5-HxCB	ug/kg dry	0.84	0.018	1.3	0.018	--	--	--	--	--	--	--	840	18	1,300	18	
2,2',3,4,4',5,5'-HpCB	ug/kg dry	1.9	0.018	3.0	0.018	--	--	--	--	--	--	--	1,900	18	3,000	18	
2,3',4,4',5,5'-HxCB	ug/kg dry	0.10	0.018	0.14	0.018	--	--	--	--	--	--	--	100	18	140	18	
2,3',4,4',5-PeCB	ug/kg dry	2.9	0.018	3.0	0.018	--	--	--	--	--	--	--	2,900	18	3,000	18	
2,3,3',4,4',5-HxCB	ug/kg dry	0.081	0.018	0.096	0.018	--	--	--	--	--	--	--	81	18	96	18	
2,3,3',4,4',5,5'-HpCB	ug/kg dry	0.032	0.018	0.047	0.018	--	--	--	--	--	--	--	32	18	47	18	
2,3,3',4,4',5-HxCB	ug/kg dry	0.43	0.018	0.50	0.018	--	--	--	--	--	--	--	430	18	500	18	
2,3,3',4,4'-PeCB	ug/kg dry	1.3	0.018	1.4	0.018	--	--	--	--	--	--	--	1,300	18	1,400	18	
2,3,4,4',5-PeCB	ug/kg dry	0.078	0.018	0.081	0.018	--	--	--	--	--	--	--	78	18	81	18	
3,3',4,4',5,5'-HxCB	ug/kg dry	ND	0.018	ND	0.018	--	--	--	--	--	--	--	ND	18	ND	18	
3,3',4,4',5-PeCB	ug/kg dry	0.025	0.018	0.030	0.018	--	--	--	--	--	--	--	25	18	30	18	
3,3',4,4'-TCB	ug/kg dry	ND	0.32	ND	0.60	--	--	--	--	--	--	--	ND	320	ND	600	
3,4,4',5-TCB	ug/kg dry	ND	0.018	ND	0.018	--	--	--	--	--	--	--	ND	18	ND	18	
Nitrate-N	mg/kg dry weight	ND	23	ND	20	--	--	--	--	--	--	--	ND	23	ND	20	
Ammonia-N	mg/kg dry weight	1,800	230	1,200	200	--	--	--	--	--	--	--	1,800	230	1,200	200	
TKN	mg/kg dry weight	62,000	1,800	40,000	1,700	--	--	--	--	--	--	--	62,000	1,800	40,000	1,700	
Aluminum	mg/kg dry weight	16,000	23	12,000	20	--	--	--	--	--	--	--	16,000	23	12,000	20	
Arsenic	mg/kg dry weight	4.0	0.92	5.2	0.78	4.2	1.0	6.5	1.0	5.6	0.97	5.5	0.98	4.6	1.0	5.7	1.0
Cadmium	mg/kg dry weight	11	0.92	8.0	0.78	11	1.0	10	1.0	12	0.97	12	0.98	11	1.0	10	1.0
Chromium	mg/kg dry weight	160	3.7	110	3.1	140	4.1	140	4.0	150	3.9	130	3.9	150	4.1	130	4.0
Copper	mg/kg dry weight	700	2.3	580	2.0	680	2.5	730	2.5	810	2.4	740	2.4	730	2.5	680	2.5
Lead	mg/kg dry weight	44	9.2	33	7.8	41	10	40	10	48	9.7	43	9.8	44	10	39	10
Molybdenum	mg/kg dry weight	18	4.6	10	3.9	18	5.1	13	5.0	17	4.9	15	4.9	18	5.1	13	5.0
Nickel	mg/kg dry weight	140	4.6	76	3.9	130	5.1	89	5.0	120	4.9	110	4.9	130	5.1	92	5.0
Zinc	mg/kg dry weight	760	1.4	770	1.2	720	15	920	1.5	870	1.5	800	1.5	780	15	830	1.5
Mercury	mg/kg dry weight	2.7	0.092	1.5	0.078	2.4	0.10	2.0	0.10	2.2	0.097	1.6	0.098	2.4	0.10	1.7	0.10
Selenium	mg/kg dry weight	4.3	1.4	2.8	1.2	5.1	1.5	5.6	1.5	6.5	1.5	6.0	1.5	5.3	1.5	4.8	1.5
pH	units	8.26	--	8.29	--	--	--	--	--	--	--	--	8.26	--	8.29	--	

ND - Not Detected

RL - Reporting Limit

CERTIFICATION STATEMENT

I certify, under penalty of law, that the requirements to obtain information in 40 CFR 503.12 (e) (2), the management practices in 40 CFR 503.14, and the site restrictions in 40 CFR 503.32 (b) (5), have been met for each site for which biosolids have been applied. This determination has been made under my direction and supervision in accordance with a system designed to insure that qualified personnel properly gather and evaluate information and apply biosolids. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.



Brent McManigal
Senior Operations Director
Synagro West, Inc.

**Synagro
2001 Land Applier Report
for the
Orange County Sanitation District
NPDES Permit No. CA0110604**

Land Applier Information

Synagro
P.O. Box 7027
10490 Dawson Canyon
Corona, CA 92883

2/1/02

ORANGE CO. S.D., CA / SYNAGRO - Fields Applied in 2001 by Synagro

Page: 1

State: Arizona

<u>Field</u>	<u>Latitude/Longitude</u>	<u>Landowner</u>	<u>Acres</u>	<u>Hectares</u>	<u>Dry</u>	<u>DMT</u>	<u>DT/AC</u>	<u>DMT/HA</u>	Plant Available Nitrogen Applied		<u>Crop</u>	<u>Planting Date</u>	<u>Harvest Date</u>
					<u>Tons</u>	<u>Applied</u>	<u>Applied</u>	<u>Applied</u>	(lbs/ac)	(kg/ha)			
County: MARICOPA													
AZ-MA-00010-0-0302	33.15' " /112.38' "	WILLIAM PERRY	78.5	31.8	446.66	405.12	5.69	12.75	157.29	176.16	COTTON	04/01/02	11/01/02
AZ-MA-00032-0-0004	33.22' " /112.44' "	LOWER RIVER RANCH	26.4	10.7	137.05	124.30	5.19	11.63	143.93	161.20	SMALL GRAI	01/01/02	06/01/02
AZ-MA-00088-0-0003	33.22'15" /112.42'60"	WANDA BRYANT	19.9	8.1	81.72	74.12	4.11	9.20	114.82	128.60	SMALL GRAI	01/01/02	06/01/02

ORANGE CO. S.D., CA/SYNAGRO-WWT - Fields Applied in 2001 by Synagro

State: California

<u>Field</u>	<u>Latitude/Longitude</u>	<u>Landowner</u>	<u>Acres</u>	<u>Hectares</u>	<u>Dry Tons</u>	<u>DMT Applied</u>	<u>DT/AC Applied</u>	<u>DMT/HA Applied</u>	<u>Plant Available Nitrogen Applied (lbs/ac)</u>	<u>Plant Crop</u>	<u>Planting Date</u>	<u>Harvest Date</u>	
County: RIVERSIDE													
CA-RI-00001-0-0003	33.36' " /117.05' "	CATHERINE POURROY	23.9	9.7	20.61	18.69	0.86	1.93	23.96	26.83	WHEAT	12/15/01	05/15/02
CA-RI-00001-0-0005	33.36' " /117.05' "	DENISE ZIONY	55.7	22.6	81.00	73.46	1.45	3.26	42.23	47.30	WHEAT	12/15/01	05/15/02
CA-RI-00001-0-0010	33.36' " /117.05' "	KATHRYN CHENG	95.0	38.5	211.68	192.00	2.23	4.99	65.30	73.13	WHEAT	12/15/01	06/15/02
CA-RI-00001-0-0038	33.42' " /117.05' "	ROBERT DOMENIGONI	134.4	54.4	306.84	278.30	2.28	5.11	65.61	73.48	CORN	06/15/01	09/15/01
CA-RI-00002-0-0002D	33.51' " /117.05' "	BERT VERGER	29.8	12.1	62.21	56.42	2.09	4.68	58.59	65.62	CORN	05/15/01	08/15/01
CA-RI-00005-0-0002C	33.51' " /117.05'50"	JOHN V. MOTTE	28.6	11.6	34.32	31.13	1.20	2.69	33.12	37.09	ALFALFA	12/15/01	05/15/02
CA-RI-00005-0-0002D	33.51' " /117.05'50"	JOHN V. MOTTE	12.4	5.0	68.10	61.76	5.49	12.30	156.71	175.52	ALFALFA	12/15/01	05/15/02
CA-RI-00005-0-0011A	33.51' " /117.05'50"	JOHN V. MOTTE	30.3	12.3	76.02	68.95	2.51	5.62	75.65	84.73	ALFALFA	10/15/01	10/15/02
CA-RI-00005-0-0011B	33.51' " /117.05'50"	JOHN V. MOTTE	19.3	7.8	16.46	14.93	0.85	1.91	26.56	29.75	ALFALFA	10/15/01	10/15/02
CA-RI-00005-0-0014	33.51' " /117.05'50"	JOHN V. MOTTE	34.4	13.9	10.23	9.28	0.30	0.67	8.23	9.22	ALFALFA	06/15/01	06/15/02
CA-RI-00005-0-0015	33.51' " /117.05'50"	JOHN V. MOTTE	73.4	29.7	15.86	14.39	0.22	0.48	6.06	6.79	ALFALFA	06/15/01	06/15/02
CA-RI-00030-0-0009	33.29'80" /114.38'23"	BOBBY HULL	22.8	9.2	103.23	93.63	4.53	10.14	133.03	149.00	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0014	33.30'05" /114.38'30"	BOBBY HULL	136.0	55.1	119.70	108.57	0.88	1.97	25.74	28.83	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0015	33.30'05" /114.38'30"	BOBBY HULL	136.0	55.1	173.20	157.09	1.27	2.85	36.82	41.24	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0016	33.30'05" /114.38'30"	BOBBY HULL	55.8	22.6	189.06	171.48	3.39	7.59	97.33	109.01	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0033	33.30'05" /114.38'30"	DAVID NOWELL	64.8	26.2	228.89	207.61	3.53	7.91	103.04	115.41	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0083	33.35'33" /114.33'27"	BOBBY HULL	34.6	14.0	61.71	55.97	1.78	4.00	52.38	58.66	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0083	33.35'33" /114.33'27"	BOBBY HULL	34.6	14.0	50.14	45.48	1.45	3.25	41.96	46.99	COTTON	04/15/01	08/15/01
CA-RI-00030-0-0084	33.35'33" /114.33'27"	BOBBY HULL	29.4	11.9	10.40	9.44	0.35	0.79	10.73	12.02	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0084	33.35'33" /114.33'27"	BOBBY HULL	29.4	11.9	18.86	17.10	0.64	1.44	18.81	21.07	COTTON	04/15/01	08/15/01
CA-RI-00030-0-0085	33.35'21" /114.33'27"	BOBBY HULL	29.9	12.1	117.68	106.74	3.94	8.82	116.69	130.70	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0086	33.35'21" /114.33'27"	BOBBY HULL	37.2	15.1	178.08	161.52	4.79	10.72	138.86	155.52	COTTON	03/01/01	08/01/01
CA-RI-00030-0-0086	33.35'21" /114.33'27"	BOBBY HULL	37.2	15.1	24.79	22.49	0.67	1.49	18.39	20.60	COTTON	04/15/01	08/15/01
CA-RI-00030-0-0094E	33.28'26" /114.41'13"	WARREN BENEFIELD	38.7	15.7	153.84	139.53	3.98	8.90	111.02	124.34	COTTON	05/15/01	09/15/01
CA-RI-00030-0-0094W	33.28'26" /114.41'28"	WARREN BENEFIELD	38.7	15.7	263.04	238.57	6.80	15.22	194.12	217.41	COTTON	05/15/01	09/15/01
CA-RI-00030-0-0095	33.28'40" /114.41'14"	WARREN BENEFIELD	58.2	23.6	64.28	58.30	1.10	2.47	31.65	35.45	COTTON	05/15/01	09/15/01
CA-RI-00040-0-0007E	33.38'57" /117.05'15"	DOMENIGONI BROS.	52.0	21.1	26.70	24.22	0.51	1.15	2.08	2.33	WHEAT	12/01/01	06/30/02
CA-RI-00040-0-0013	33.38'57" /117.05'15"	DOMENIGONI BROS.	137.8	55.8	123.24	111.78	0.89	2.00	25.67	28.75	WHEAT	12/01/01	05/01/02
CA-RI-00040-0-0013	33.38'57" /117.05'15"	DOMENIGONI BROS.	137.8	55.8	44.38	40.25	0.32	0.72	9.12	10.21	WHEAT	12/15/01	05/15/02
CA-RI-00040-0-0014	33.38'22" /117.05'22"	DOMENIGONI BROS.	69.0	27.9	141.71	128.53	2.05	4.60	58.07	65.04	WHEAT	12/15/01	05/15/02
CA-RI-00040-0-0017C	33.39'27" /117.06'32"	DOMENIGONI BROS.	20.1	8.1	58.04	52.64	2.89	6.47	83.14	93.12	WHEAT	12/01/01	05/01/02
CA-RI-00040-0-0017E	33.39'27" /117.06'32"	DOMENIGONI BROS.	47.1	19.1	59.64	54.09	1.27	2.84	36.18	40.52	WHEAT	12/01/01	05/01/02
CA-RI-00040-0-0017E	33.39'27" /117.06'32"	DOMENIGONI BROS.	47.1	19.1	27.83	25.24	0.59	1.32	17.67	19.79	WHEAT	12/15/01	05/15/02
CA-RI-00040-0-0017W	33.39'27" /117.06'32"	DOMENIGONI BROS.	84.0	34.0	60.15	54.55	0.72	1.60	21.02	23.54	WHEAT	12/01/01	05/01/02
CA-RI-00040-0-0022	33.34'18" /117.02'08"	ALEX BOREL	66.9	27.1	86.25	78.23	1.29	2.89	36.83	41.25	WHEAT	02/01/01	06/30/01
CA-RI-00040-0-0028B	33.38'57" /117.05'15"	DOMENIGONI BROS.	34.0	13.8	74.20	67.30	2.18	4.89	61.47	68.85	WHEAT	12/15/01	05/15/02
CA-RI-00040-0-0028C	33.38'57" /117.05'15"	DOMENIGONI BROS.	10.5	4.3	18.40	16.69	1.75	3.93	51.33	57.48	WHEAT	12/15/01	05/15/02
CA-RI-00040-0-0029	33.34'30" /117.05'30"	DAVE LEDBETTER	78.0	31.6	137.37	124.60	1.76	3.95	50.29	56.32	WHEAT	02/01/01	06/30/01
CA-RI-00040-0-0035	33.33'00" /117.04'00"	COUNTY OF RIVERSI	1300.0	526.5	1060.87	962.21	0.82	1.83	23.30	26.10	WHEAT	02/01/01	06/30/01
CA-RI-00042-0-0007A	33.50'40" /117.04'12"	BERT VERGER	26.0	10.5	92.83	84.20	3.57	8.00	102.73	115.06	ALFALFA	12/01/01	05/01/02
CA-RI-00042-0-0007B	33.50'40" /117.04'12"	BERT VERGER	36.0	14.6	114.17	103.55	3.17	7.10	91.54	102.53	ALFALFA	12/01/01	05/01/02
CA-RI-00042-0-0007C	33.50'40" /117.04'12"	RICHARD DE VUYST	30.0	12.2	102.37	92.85	3.41	7.64	97.00	108.64	ALFALFA	04/15/01	04/15/02
CA-RI-00042-0-0007D	33.50'40" /117.04'12"	RICHARD DE VUYST	25.0	10.1	42.82	38.84	1.71	3.84	49.82	55.80	ALFALFA	04/15/01	04/15/02
CA-RI-00042-0-0008B	33.50'23" /117.04'01"	BERT VERGER	30.0	12.2	72.35	65.62	2.41	5.40	69.02	77.30	ALFALFA	04/15/01	04/15/02
CA-RI-00042-0-0009	33.41'38" /117.04'47"	EASTERN MUNIPICAL	67.0	27.1	139.09	126.16	2.08	4.65	60.18	67.40	WHEAT	12/15/01	06/15/02
CA-RI-00042-0-0010	33.41'38" /117.04'47"	EASTERN MUNIPICAL	40.0	16.2	69.07	62.65	1.73	3.87	50.08	56.10	WHEAT	12/15/01	06/15/02
CA-RI-00043-0-0002	33.47'13" /117.10'35"	A&G, INC.	66.1	26.8	4.95	4.49	0.07	0.17	2.14	2.40	WHEAT	02/01/01	06/30/01

ORANGE CO. S.D., CA / SYNAGRO - Fields Applied in 2001 by Synagro

State: California

<u>Field</u>	<u>Latitude/Longitude</u>	<u>Landowner</u>	<u>Acres</u>	<u>Hectares</u>	<u>Dry</u>	<u>DMT</u>	<u>DT/AC</u>	<u>DMT/HA</u>	<u>Plant Available</u>		<u>Crop</u>	<u>Planting Date</u>	<u>Harvest Date</u>
					<u>Tons</u>	<u>Applied</u>	<u>Applied</u>	<u>Applied</u>	<u>Nitrogen Applied</u> <u>(lbs/ac)</u>	<u>(kg/ha)</u>			
CA-RI-00043-0-0003	33.4713" /117.10'35"	A&G, INC.	70.0	28.4	84.99	77.08	1.21	2.72	35.19	39.41	WHEAT	12/15/01	06/15/02
CA-RI-00048-0-0001	33.39'43" /116.58'20"	FRANK LILLO	50.0	20.3	113.64	103.07	2.27	5.09	62.73	70.26	WHEAT	12/15/01	05/15/02
CA-RI-00052-0-0001	33.28'55" /117.01'15"	JAMES WILKINSON	50.3	20.4	126.27	114.53	2.51	5.62	71.67	80.27	WHEAT	02/01/01	05/01/01
CA-RI-00052-0-0001	33.28'55" /117.01'15"	JAMES WILKINSON	50.3	20.4	95.58	86.69	1.90	4.26	54.40	60.93	WHEAT	12/15/01	06/15/02
CA-RI-00052-0-0002	33.28'37" /117.01'15"	JAMES WILKINSON	14.5	5.9	24.93	22.61	1.72	3.85	49.14	55.03	WHEAT	02/01/01	05/01/01
CA-RI-00052-0-0003	33.29'37" /117.01'21"	RAY RICH	14.5	5.9	29.75	26.98	2.05	4.60	58.60	65.63	WHEAT	02/01/01	05/01/01
CA-RI-00054-0-0001	33.51'6" /117.04'20"	EVERETT N. LIST	100.0	40.5	222.23	201.56	2.22	4.98	63.57	71.20	WHEAT	12/15/01	05/15/02
CA-RI-00056-0-0002	33.51'25" /117.06'04"	WARREN & CHARLENE	165.0	66.8	283.53	257.16	1.72	3.85	49.88	55.87	WHEAT	12/15/01	06/15/02
CA-RI-00058-0-0001	33.40'24" /116.57'06"	VALENTINE CENOV	40.0	16.2	39.06	35.43	0.98	2.19	27.22	30.48	WHEAT	12/15/01	05/15/02
CA-RI-00059-0-00R2	33.31'12" /114.40'10"	RICHARDSON FAMILY	32.0	13.0	160.84	145.88	5.03	11.26	142.91	160.06	COTTON	05/15/01	09/15/01
CA-RI-00059-0-00R3	33.31'12" /114.40'10"	RICHARDSON FAMILY	33.8	13.7	161.27	146.27	4.77	10.69	136.99	153.42	COTTON	05/15/01	09/15/01
CA-RI-00059-0-00R4	33.31'12" /114.40'10"	RICHARDSON FAMILY	45.3	18.3	264.12	239.56	5.83	13.06	167.04	187.08	COTTON	06/15/01	11/15/01
CA-RI-00059-0-00R5	33.31'12" /114.40'10"	RICHARDSON FAMILY	39.7	16.1	107.87	97.84	2.72	6.09	77.81	87.14	COTTON	05/15/01	09/15/01
CA-RI-09025-0-0001	33.39'20" /114.42'30"	SYNAGRO	71.0	28.8	295.99	268.46	4.17	9.34	120.27	134.71	SUDAN	10/15/01	06/15/02
CA-RI-09025-0-0002	33.39'20" /114.42'30"	SYNAGRO	71.0	28.8	284.99	258.49	4.01	8.99	114.66	128.41	SUDAN	10/15/01	06/15/02
CA-RI-09025-0-0003	33.39'20" /114.42'30"	SYNAGRO	40.0	16.2	211.54	191.87	5.29	11.85	152.00	170.24	SUDAN	05/15/01	10/15/01

County: SAN BERNARDINO

CA-SB-00001-0-0014	34.57'10" /114.39'44"	FT. MOHAVE INDIAN	75.4	30.5	229.88	208.50	3.05	6.83	85.24	95.47	COTTON	01/01/02	08/01/02
CA-SB-00001-0-0020	34.57'10" /114.39'12"	FT. MOHAVE INDIAN	70.9	28.7	30.46	27.63	0.43	0.96	12.01	13.46	COTTON	01/01/02	08/01/02

County: SAN DIEGO

CA-SD-00002-0-0004	32.37'32" /116.58'03"	MULTIPLE	110.0	44.6	31.38	28.46	0.29	0.64	7.26	8.13	WHEAT	12/01/01	06/01/02
CA-SD-00002-0-0008	32.37'16" /116.58'48"	MULTIPLE	277.0	112.2	660.79	599.34	2.39	5.34	31.92	35.75	WHEAT	12/01/01	06/01/02
CA-SD-00002-0-0009	32.36'36" /116.58'06"	MULTIPLE	541.0	219.1	3392.04	3076.58	6.27	14.04	62.38	69.87	WHEAT	11/15/01	06/15/02
CA-SD-00002-0-0009	32.36'36" /116.58'06"	MULTIPLE	541.0	219.1	241.50	219.04	0.45	1.00	10.55	11.81	WHEAT	12/01/01	06/01/02
CA-SD-00002-0-0011	32.36'44" /116.57'28"	MULTIPLE	120.0	48.6	1194.96	1083.83	9.96	22.31	97.57	109.28	WHEAT	11/15/01	06/15/02
CA-SD-00002-0-0012	32.37'58" /116.58'38"	MULTIPLE	96.0	38.9	331.37	300.56	3.45	7.73	21.63	24.23	WHEAT	12/01/01	06/01/02

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: Arizona

County: MARICOPA

Field: MA 00010-0302

Date Applied

11/20/01
11/20/01
11/21/01
11/21/01
11/26/01
11/26/01
11/27/01
11/28/01
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12/13/01

Field: MA 00032-0004

Date Applied

11/13/01
11/14/01
11/14/01
11/15/01
11/15/01
11/16/01
11/18/01
11/19/01
11/19/01

Field: MA 00088-0003

Date Applied

12/17/01
12/18/01
12/19/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00001-0003

Date Applied

04/02/01
04/02/01

Field: RI 00001-0005

Date Applied

03/28/01
03/28/01
03/28/01
03/29/01
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03/29/01
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03/29/01

Field: RI 00001-0010

Date Applied

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06/01/01

Field: RI 00001-0038

Date Applied

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05/22/01

Field: RI 00002-0002D

Date Applied

04/02/01
04/03/01
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04/03/01

Field: RI 00005-0002C

Date Applied

03/26/01
03/27/01
03/27/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00005-0002D

Date Applied

03/27/01
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03/28/01
03/28/01
03/28/01

Field: RI 00005-0011A

Date Applied

07/30/01
07/30/01
07/31/01
08/01/01
08/01/01
08/02/01
08/02/01

Field: RI 00005-0011B

Date Applied

08/03/01
08/03/01

Field: RI 00005-0014

Date Applied

05/21/01

Field: RI 00005-0015

Date Applied

04/26/01
04/27/01
05/21/01

Field: RI 00030-0009

Date Applied

02/05/01
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Field: RI 00030-0014

Date Applied

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02/12/01

Field: RI 00030-0015

Date Applied

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02/14/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00030-0015

Date Applied

02/14/01
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Field: RI 00030-0016

Date Applied

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Field: RI 00030-0033

Date Applied

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02/20/01
02/20/01
02/21/01
02/21/01

Field: RI 00030-0083

Date Applied

02/28/01
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03/01/01
03/01/01
03/01/01
03/01/01

Field: RI 00030-0084

Date Applied

02/23/01
03/02/01
03/02/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00030-0085

Date Applied

02/21/01
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02/22/01
02/22/01
02/22/01
02/23/01
02/23/01

Field: RI 00030-0086

Date Applied

02/26/01
02/26/01
02/27/01
02/27/01
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02/27/01
02/28/01
02/28/01
03/01/01
03/01/01
03/01/01

Field: RI 00030-0094E

Date Applied

04/05/01
04/05/01
04/05/01
04/05/01
04/05/01
04/06/01
04/06/01
04/09/01
04/09/01
04/09/01

Field: RI 00030-0094W

Date Applied

04/10/01
04/10/01
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04/12/01

Field: RI 00030-0095

Date Applied

04/04/01
04/04/01
04/04/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00030-0095

Date Applied

04/04/01

04/04/01

Field: RI 00040-0007E

Date Applied

11/21/01

Field: RI 00040-0013

Date Applied

02/19/01

02/20/01

02/20/01

02/21/01

02/21/01

02/21/01

03/05/01

03/05/01

03/05/01

Field: RI 00040-0014

Date Applied

03/12/01

03/13/01

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03/13/01

03/14/01

03/14/01

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03/14/01

Field: RI 00040-0017C

Date Applied

02/05/01

02/05/01

Field: RI 00040-0017E

Date Applied

01/31/01

01/31/01

01/31/01

03/02/01

03/03/01

03/03/01

Field: RI 00040-0017W

Date Applied

02/01/01

02/01/01

02/02/01

02/02/01

02/02/01

Field: RI 00040-0022

Date Applied

01/08/01

01/08/01

01/10/01

01/10/01

Field: RI 00040-0028B

Date Applied

03/20/01

03/20/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00040-0028B

Date Applied

03/20/01

03/20/01

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03/20/01

Field: RI 00040-0028C

Date Applied

03/20/01

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03/20/01

Field: RI 00040-0029

Date Applied

01/02/01

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Field: RI 00040-0035

Date Applied

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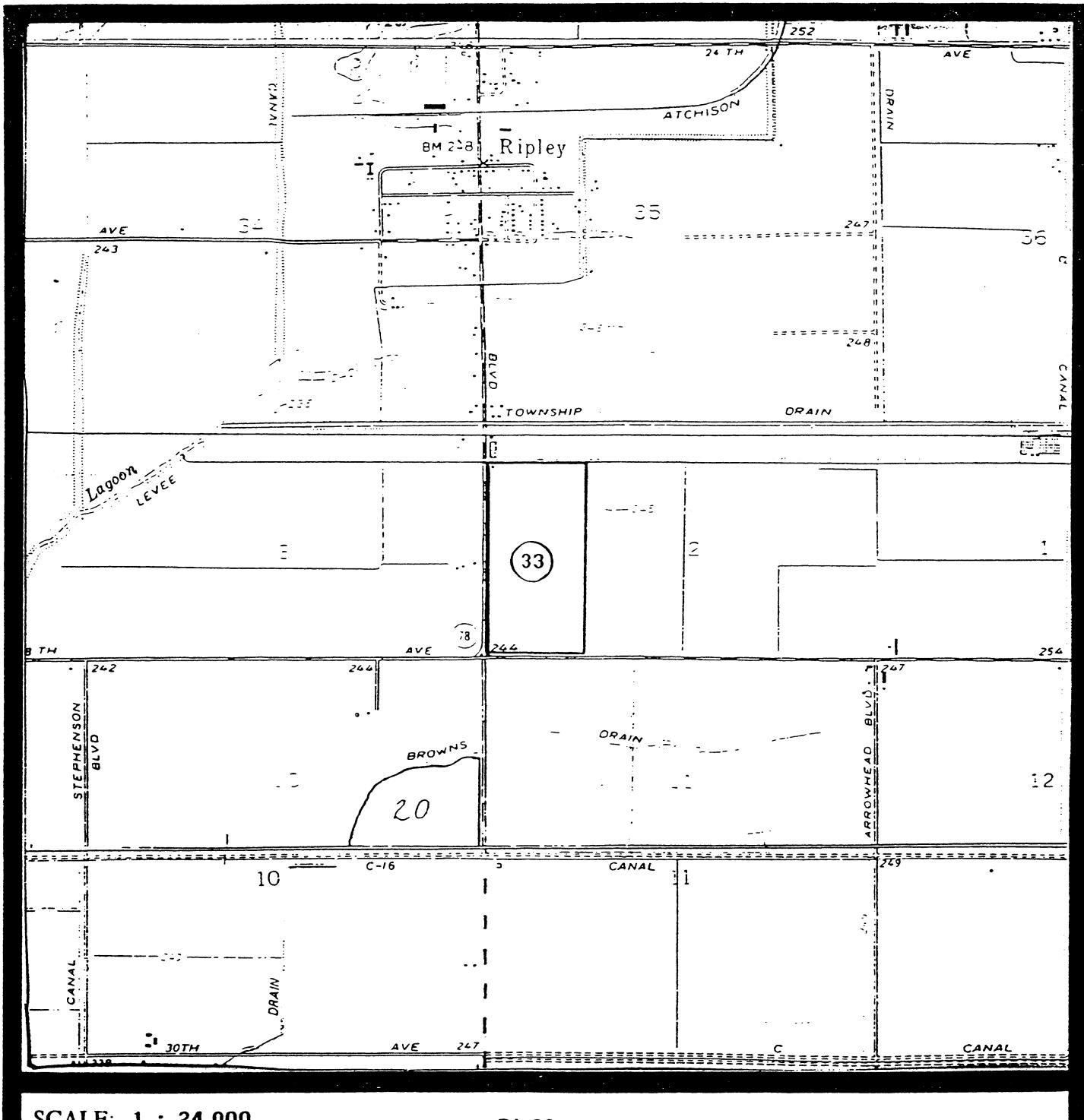
01/18/01



SYNAGRO

A Residuals Management Company

Blythe Area Field
CA-RI-30-33
Riverside County, California



SCALE: 1 : 24,000

RI 30

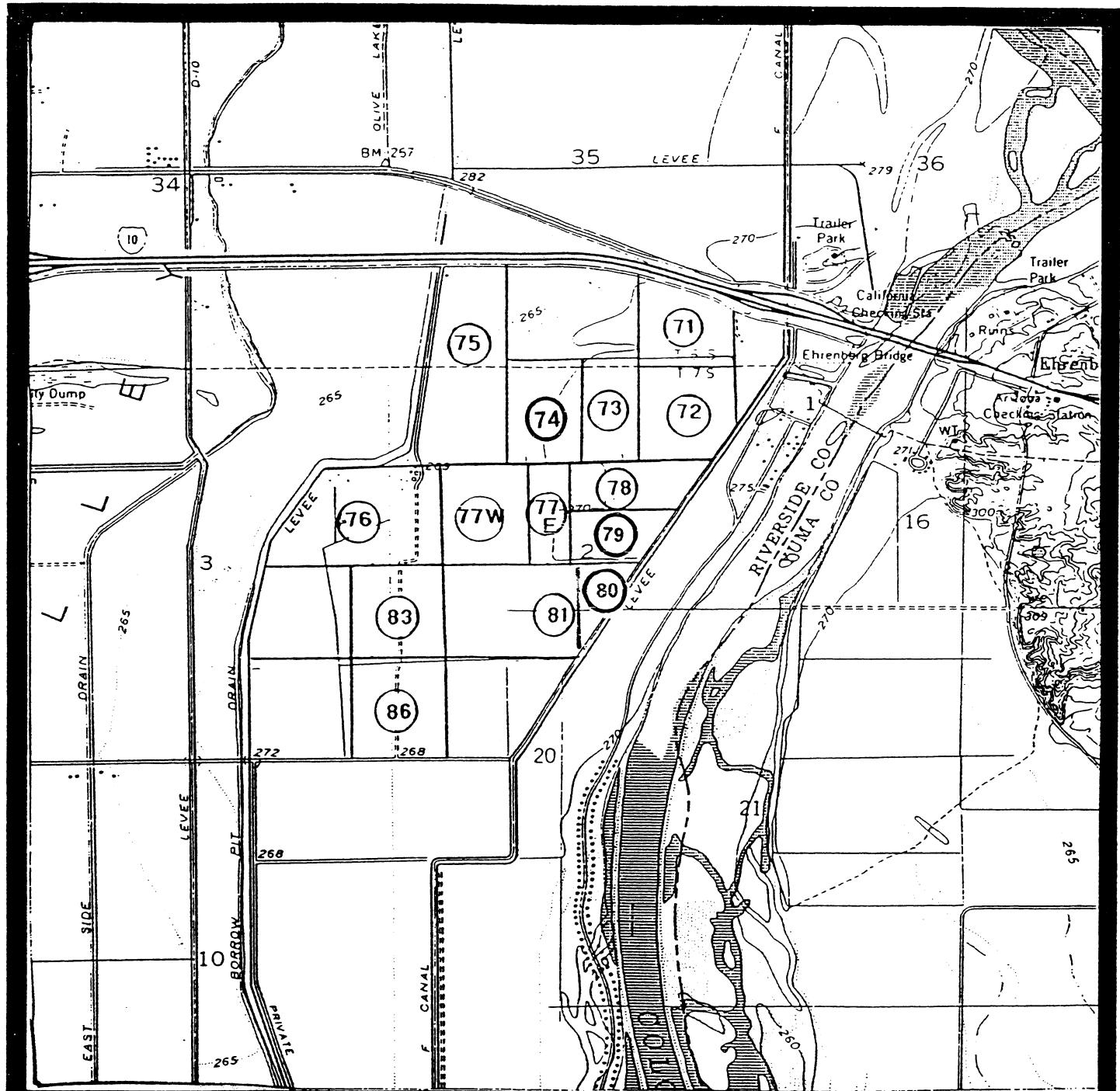
TOPOGRAPHIC MAP

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A Residuals Management Company

Blythe Area Fields
CA-RI-30-83
CA-RI-30-86
Riverside County, California



SCALE: 1 : 24,000

RI 30

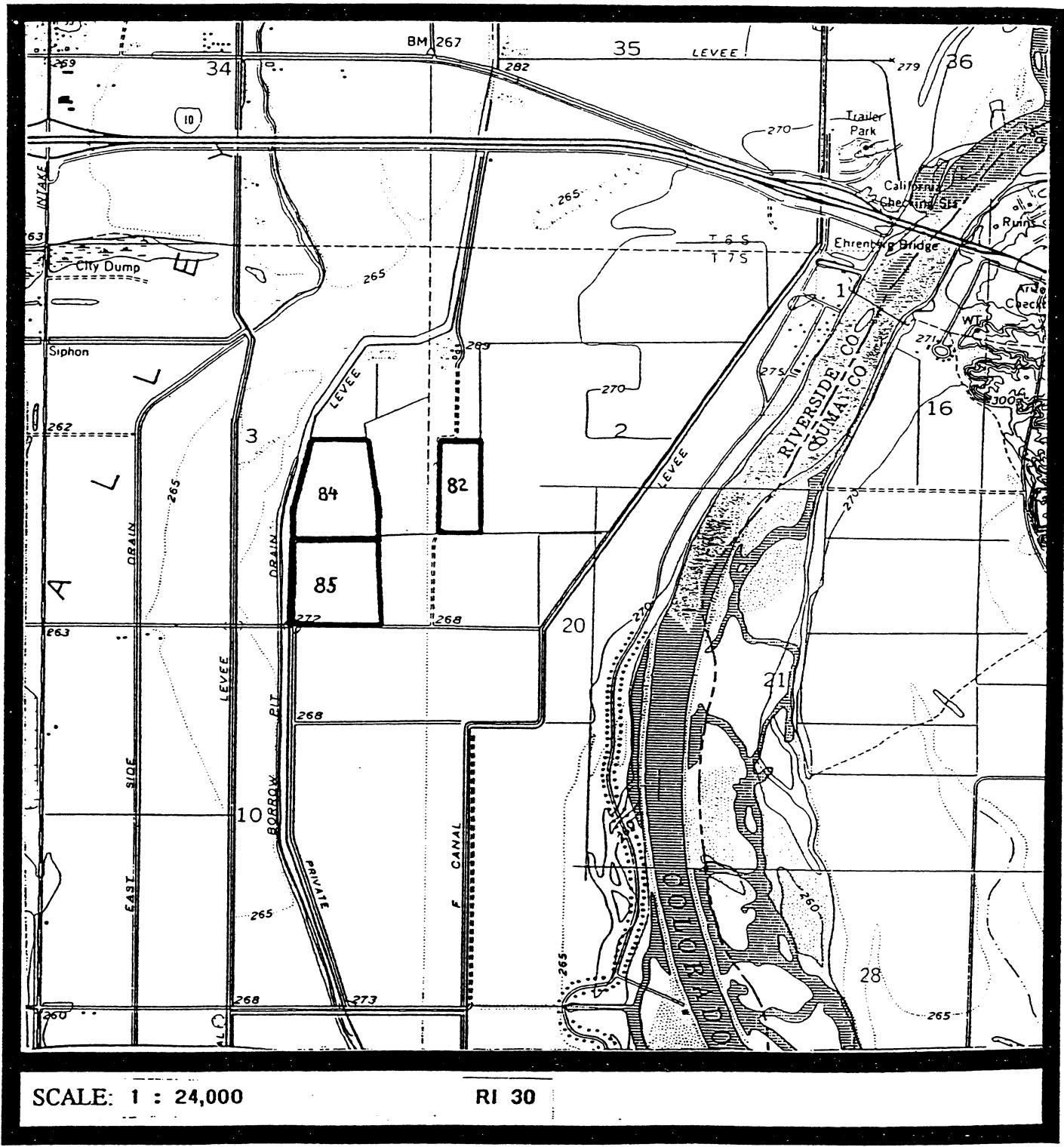
TOPOGRAPHIC MAP

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A Residuals Management Company

Blythe Area Fields
CA-RI-30-84
CA-RI-30-85
Riverside County, California



SCALE: 1 : 24,000

RI 30

TOPOGRAPHIC MAP

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 SYNAGRO

A Residuals Management Company

Scale 1:25,000

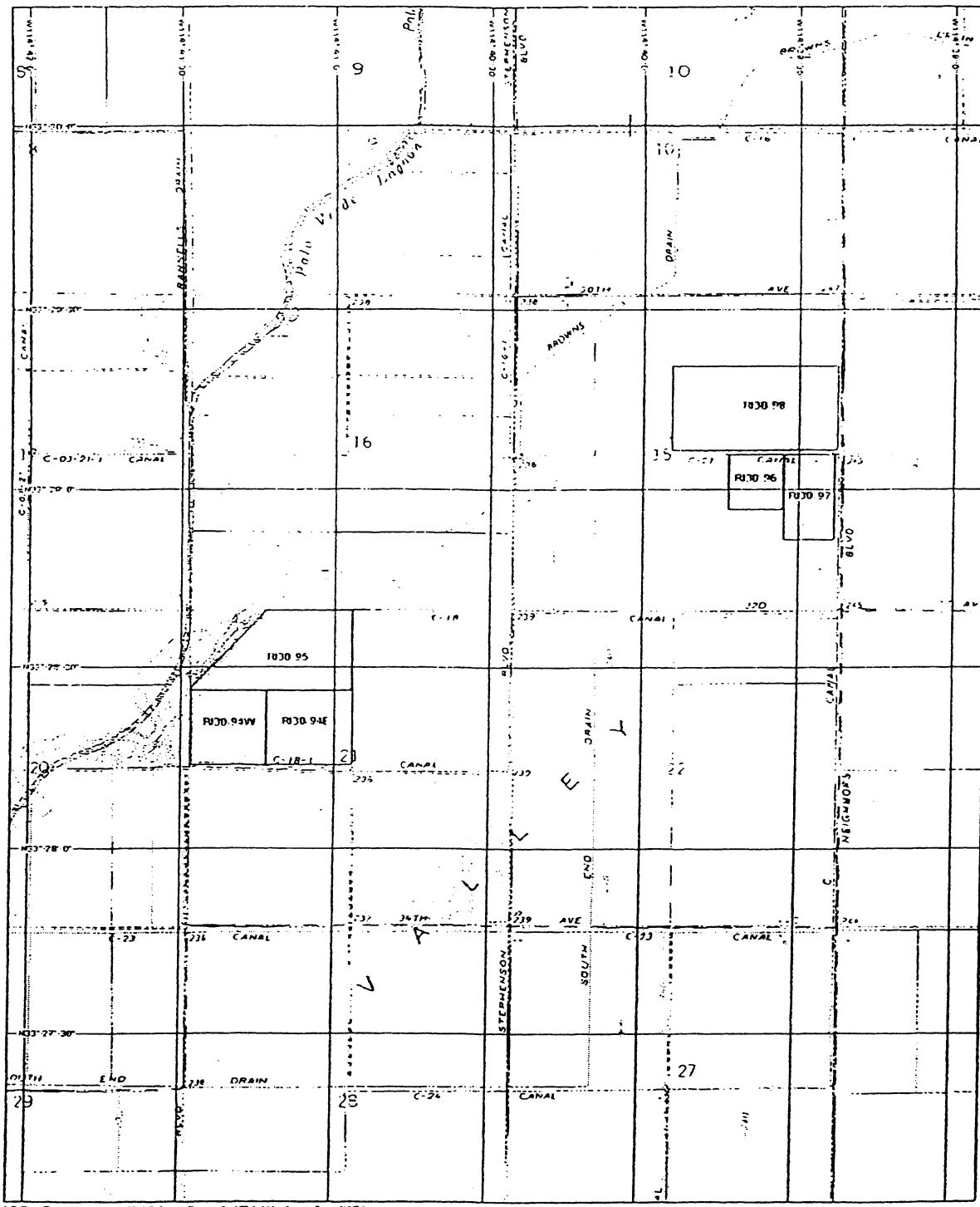


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Topographic Map

Field RI-30-94E
Field RI-30-94W
Field RI-30-95

Riverside County



3-D Topo-Quads Copyright © 1999 Delaware Technical & Community College, DE 19976 Source: USGS Scale: 1:25,000 Date: 11/8 Edition: W7-124

Synagro West, Inc.
P.O. Box 7027, Corona, CA 92878-7027 • Ph: (909) 277-2662 • Fax: (909) 277-2960 • Toll Free (800) 242-2222

DEC-05-2001 11:11

SYNAGRO WEST & COMPOSTING

R140-7E

9092772960 P.03

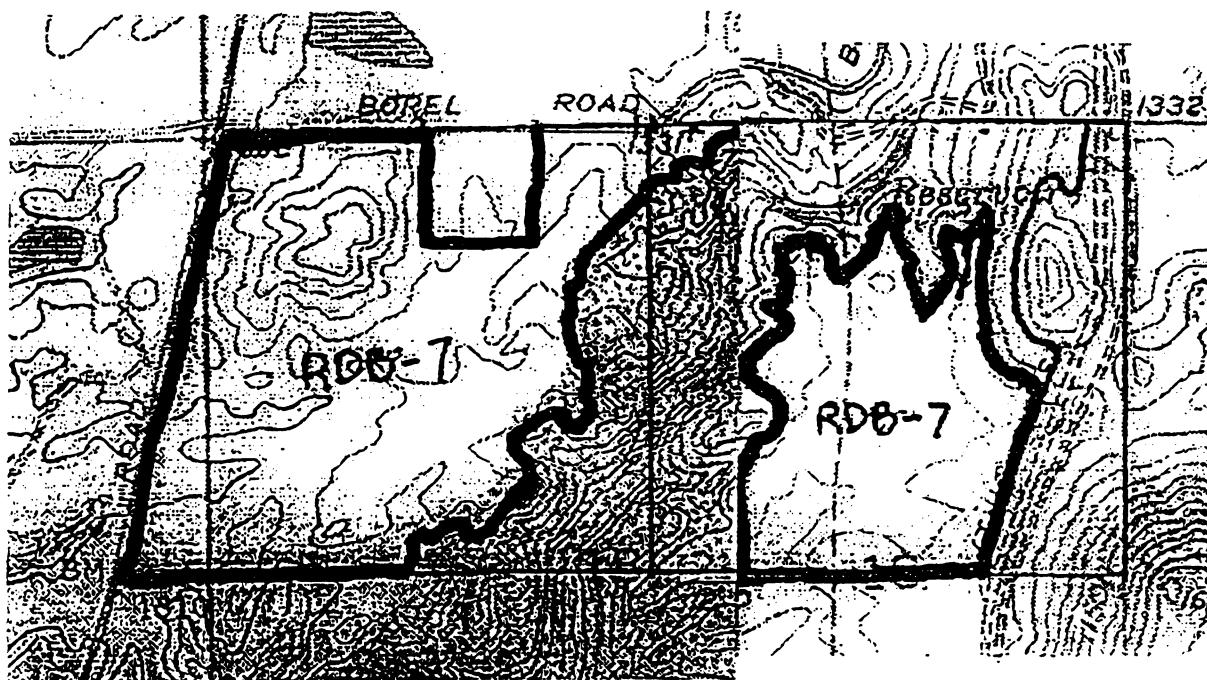
PIMA GRO SYSTEMS INC.
BIOSOLIDS REUSE SPECIALISTS

Scale 1" = 1,150'

Buffer Zones Map
RDB Field 7
Riverside County



Source: MAPTECH, CALIFORNIA, Ventura, Los Angeles, Orange County



**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-1**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Reclamation Plant #1,
Fountain Valley, CA - EQ Class B

Monitoring Period: 05/01/01 To 05/31/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	7.3	41 mg/kg	75 mg/kg
Cadmium	27	39 mg/kg	85 mg/kg
Copper	860	1500 mg/kg	4300 mg/kg
Lead	86	300 mg/kg	840 mg/kg
Mercury	1.6	17 mg/kg	57 mg/kg
Molybdenum	17	N/A ²	75 mg/kg
Nickel	230	420 mg/kg	420 mg/kg
Selenium ³	11	100 mg/kg	100 mg/kg
Zinc	810	2800 mg/kg	7500 mg/kg
Average Percent Solids	23	N/A	N/A

¹ Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____

Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: 6/18/01

Prepared by L. Baroldi/K. Stearns

**NOTICE AND NECESSARY INFORMATION (NANI)
CERTIFICATION # 01-97OC-2**

This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements (503.12(f)). Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land applicators and also by land applicators to transmit information to land owners or lease holders.

Facility and Biosolids Type: Orange County Sanitation District Wastewater Treatment Plant #2,
Huntington Beach, CA - EQ Class B

Monitoring Period: 05/01/01 To 05/31/01

TO BE COMPLETED BY PREPARERS OF BIOSOLIDS

A. Please provide pollutant concentrations below.

Name	Concentration (mg/kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) (Monthly Average)	Ceiling Concentrations ¹ (Table 1, 40 CFR 503.13)
Arsenic	8.8	41 mg/kg	75 mg/kg
Cadmium	8.8	39 mg/kg	85 mg/kg
Copper	930	1500 mg/kg	4300 mg/kg
Lead	61	300 mg/kg	840 mg/kg
Mercury	1.8	17 mg/kg	57 mg/kg
Molybdenum	15	N/A ²	75 mg/kg
Nickel	93	420 mg/kg	420 mg/kg
Selenium ³	11	100 mg/kg	100 mg/kg
Zinc	880	2800 mg/kg	7500 mg/kg
Average Percent Solids	22	N/A	N/A

Biosolids may not be land applied if any pollutant exceeds these values.

² EPA has removed molybdenum limits from Table 2, Table 3, and Table 4.

³ Federal Register amended to exclude pollutant limits for Cr and change Se concentration in Table 3 from 36 mg/kg to 100 mg/kg.

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A _____ Class B X _____

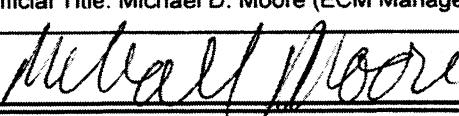
C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

Option 1 Option 2 _____ Option 3 _____ Option 4 _____ Option 5 _____ Option 6 _____
Option 7 _____ Option 8 _____ Option 9 _____ Option 11 _____

No Vector attraction reductions were performed _____

D. CERTIFICATION

I certify under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in §503.32 (b) (3) and the vector attraction reduction requirement in §503.33 (b) (1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title: Michael D. Moore (ECM Manager)	B. Area Code and Telephone #: (714) 593-7450
C. Signature: 	D. Date Signed: 6/18/01

Prepared by L. Baroldi/K. Stearns

DEC-05-2001 11:11

SYNAGRO WEST & COMPOSTING

R140

9092772960 P.02

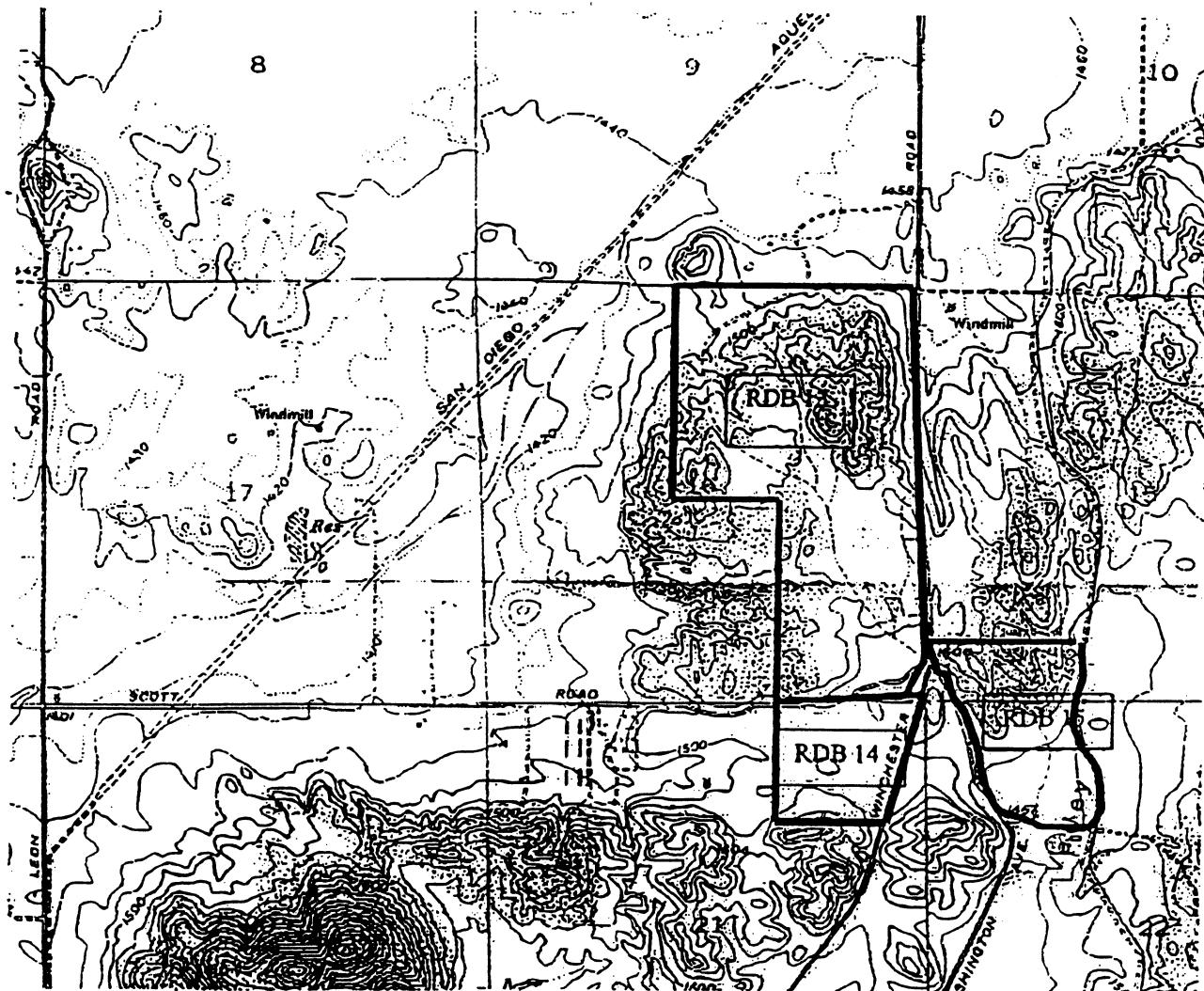
PIMA GRO SYSTEMS INC.

BIOSOLIDS REUSE SPECIALISTS

Topographic Map RDB Fields 13-15 Riverside County



Source: MAPTECH, CALIFORNIA, Ventura, Los Angeles, Orange County





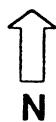
A Residuals Management Company

Scale: 1:24,000

Topographic Map

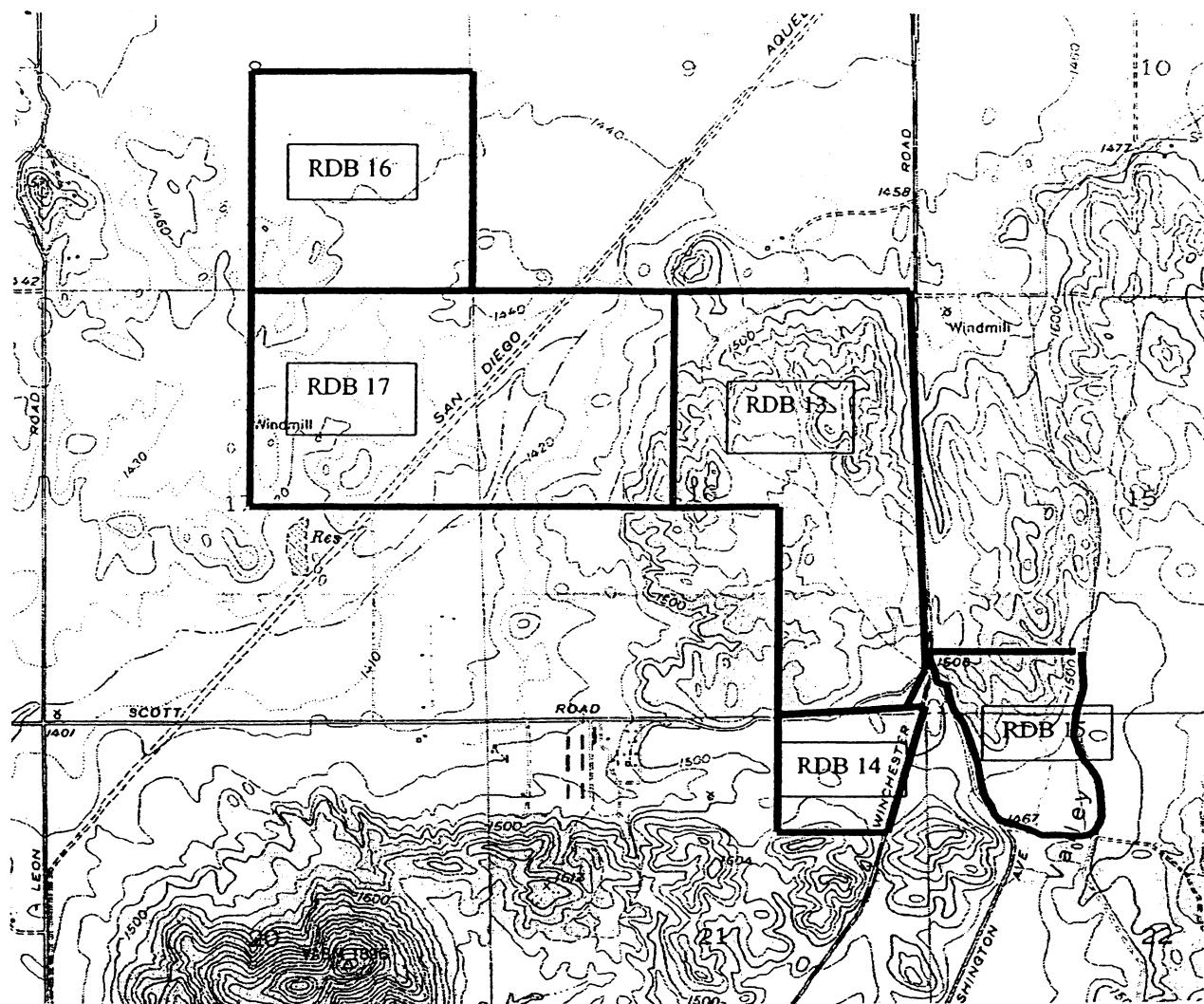
RDB Fields 16-17

CA-RI-40-17B
CA-RI-40-17C
CA-RI-40-17D } (RDB-17)



Riverside County

Source: MAPTECH, CALIFORNIA



R140



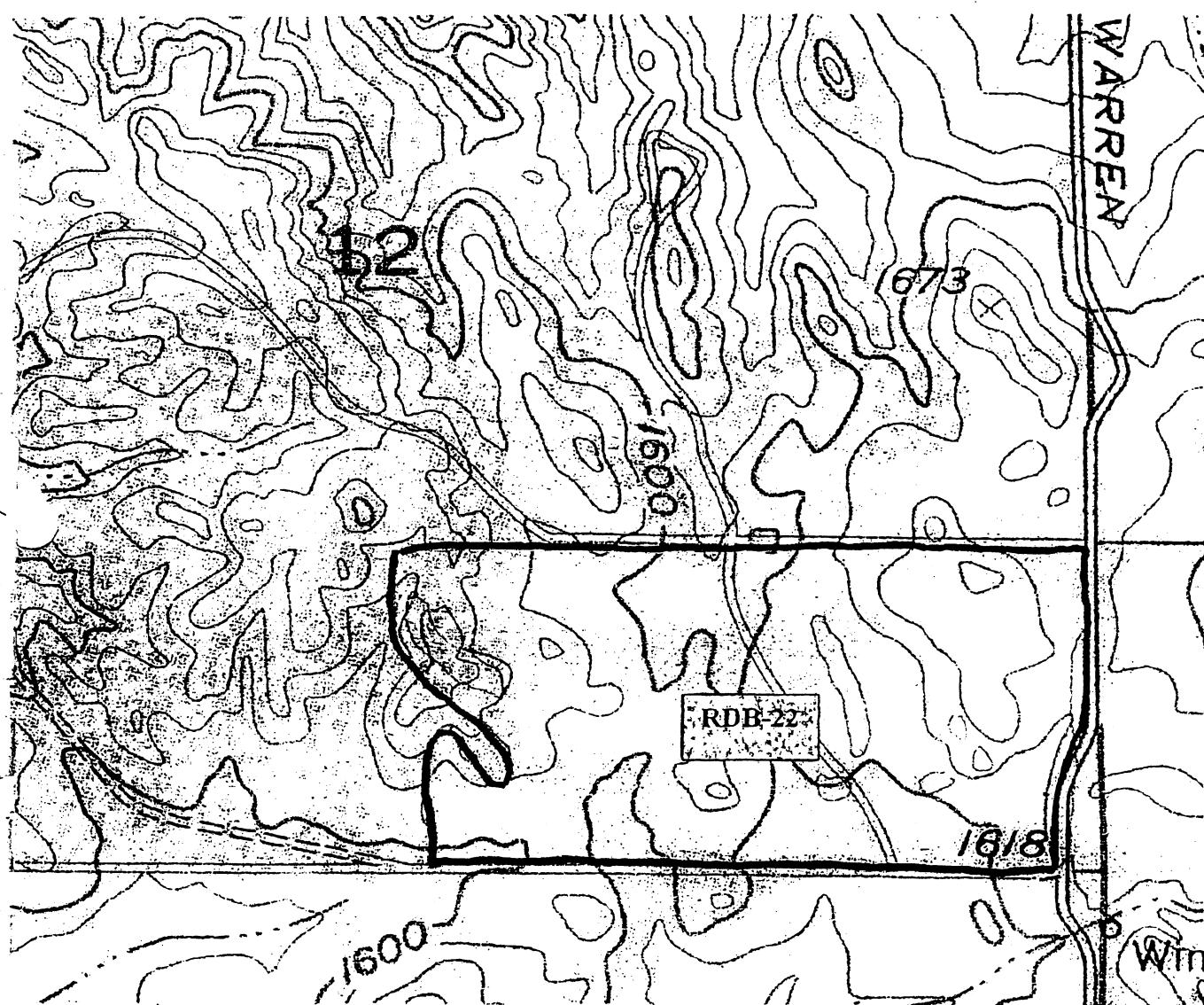
A Residuals Management Company

BIOSOLIDS REUSE SPECIALISTS

Topographic Map
RDB Field 22
Riverside County



Source: MAPTECH, CALIFORNIA, Ventura, Los Angles, Orange County





A Residuals Management Company



N

Aerial Site Summary

Fields RI-40-28-B (RDB-28B)

and RI-40-28-C (RDB-28C)

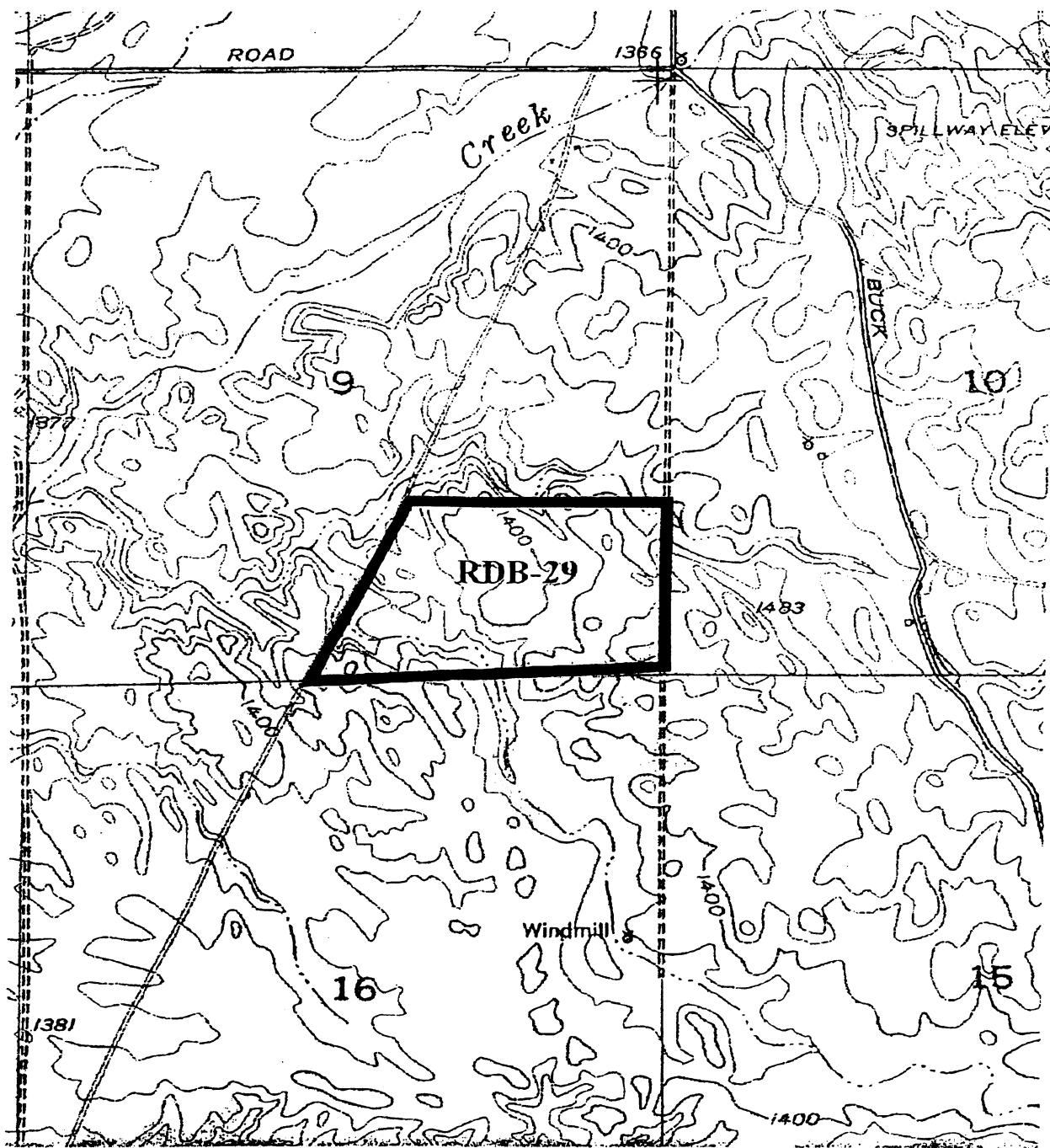
Riverside County



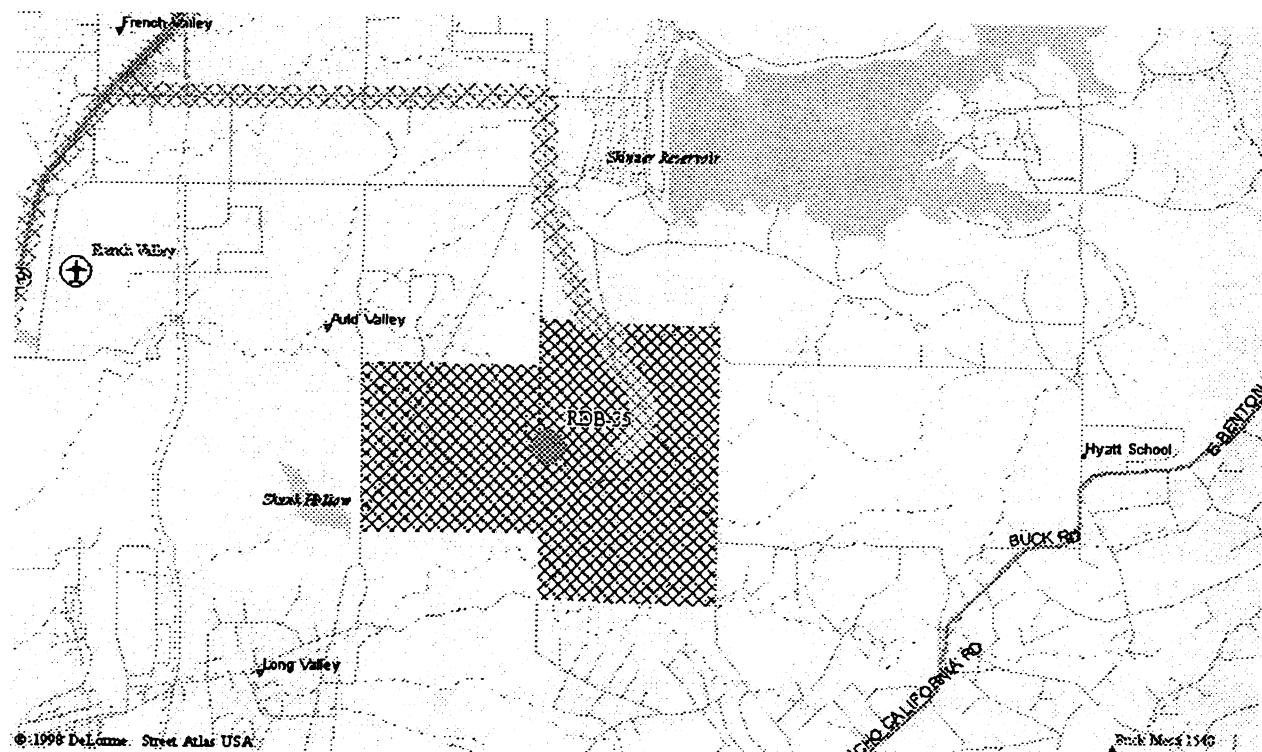
Synagro West, Inc.

P.O. Box 7027, Corona, CA 92878-7027 • Ph: (909) 277-2662 • Fax: (909) 277-2960 • Toll Free (800) 242-2222

R140

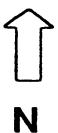
Topographic Map, RDB-29, Riverside County

Vicinity Map, Field CA-RI-40-0-35 (RDB-35), Riverside County





A Residuals Management Company



Scale: 1:24,000

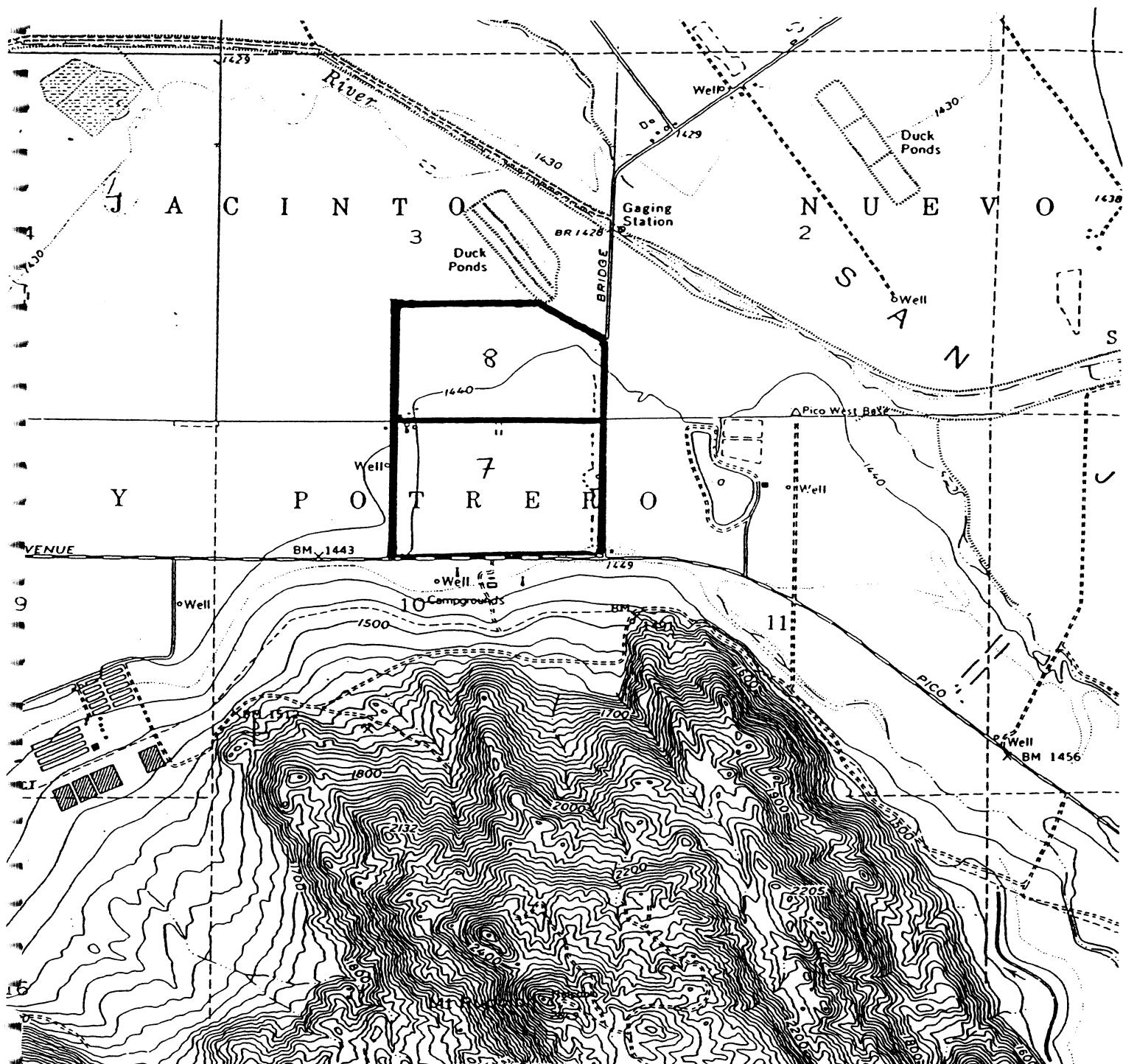
Topographic Map

Fields RI-42-7-A (RDF-7NE)
RI-42-7-B (RDF-7SE)
RI-42-7-C (RDF-7SW)
RI-42-7-D (RDF-7NW)

RI-42-8-B (RDF-8NW)

Riverside County

Source: MAPTECH, CALIFORNIA



R142



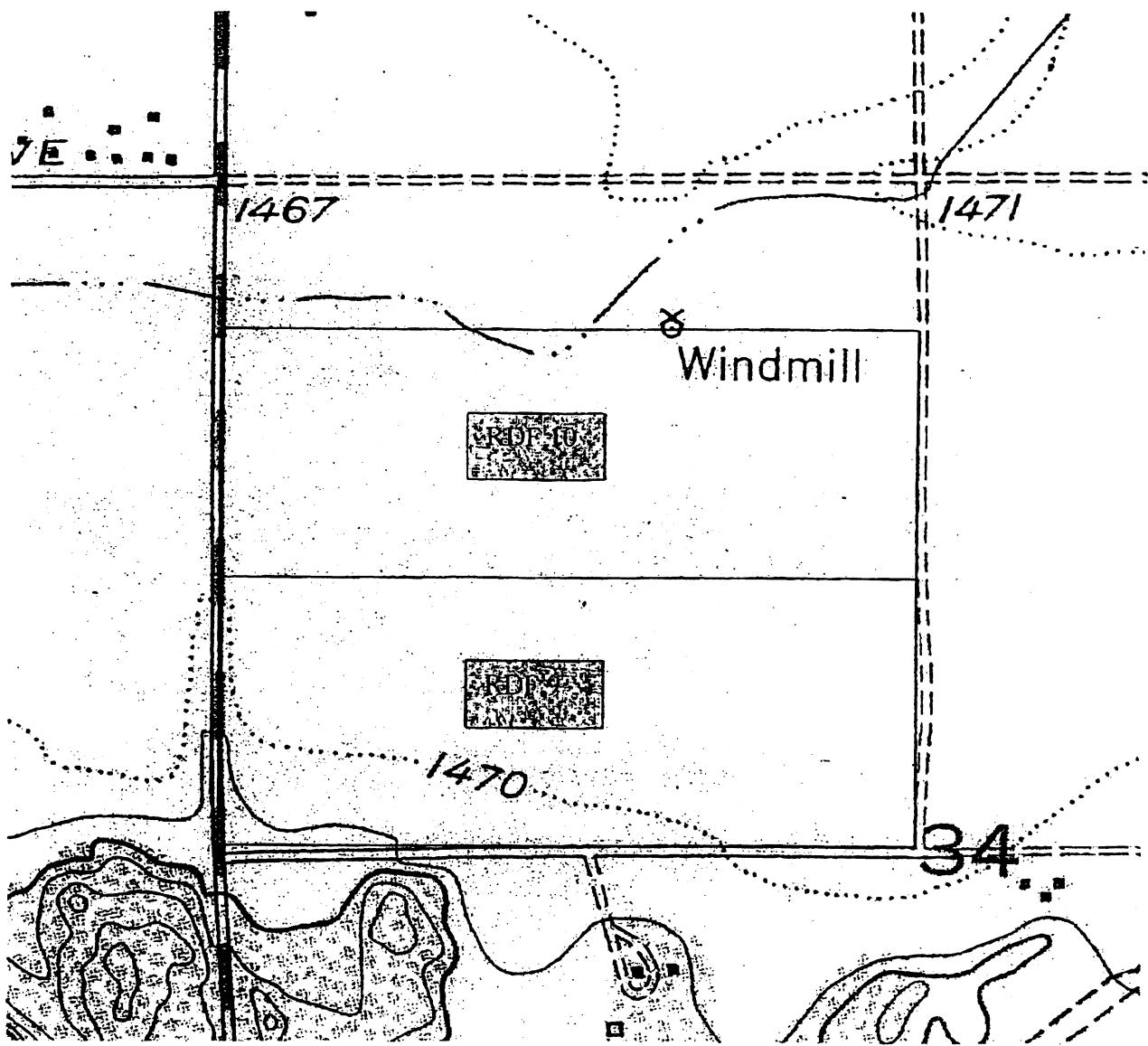
SYNAGRO

A Residuals Management Company

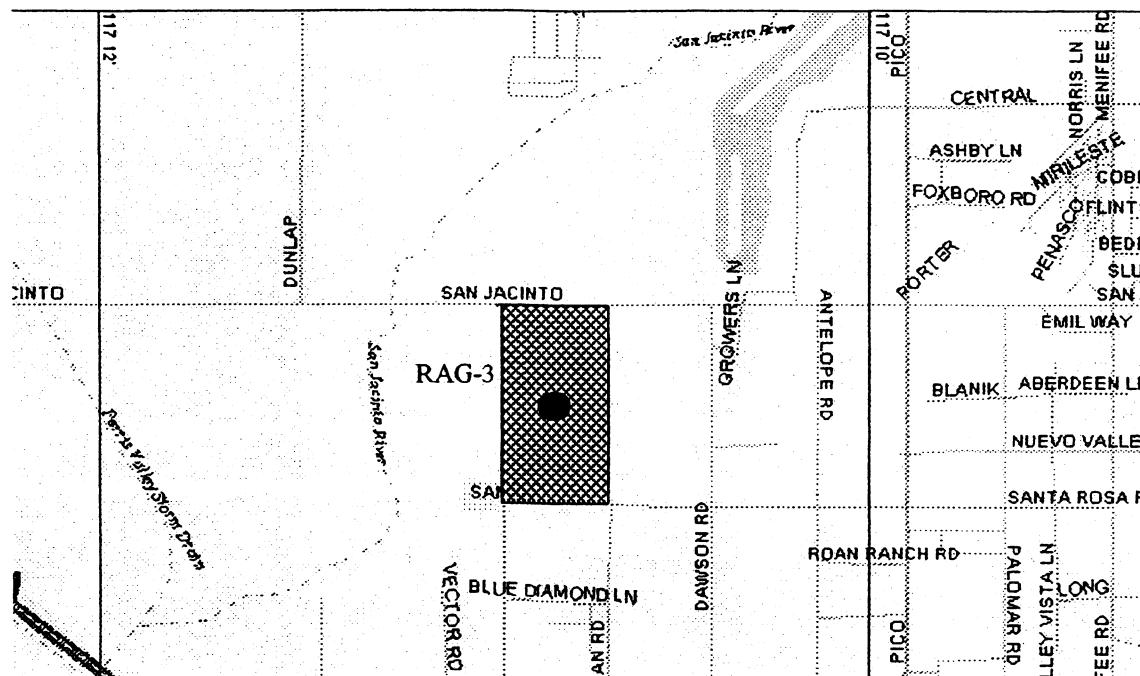
Topographic Map
RDF Fields 9 and 10
Riverside County



Source: MAPTECH, CALIFORNIA, Ventura, Los Angles, Orange County



Vicinity Map, Field CA-RI-43-0-3 (RAG-3), Riverside County





A Residuals Management Company

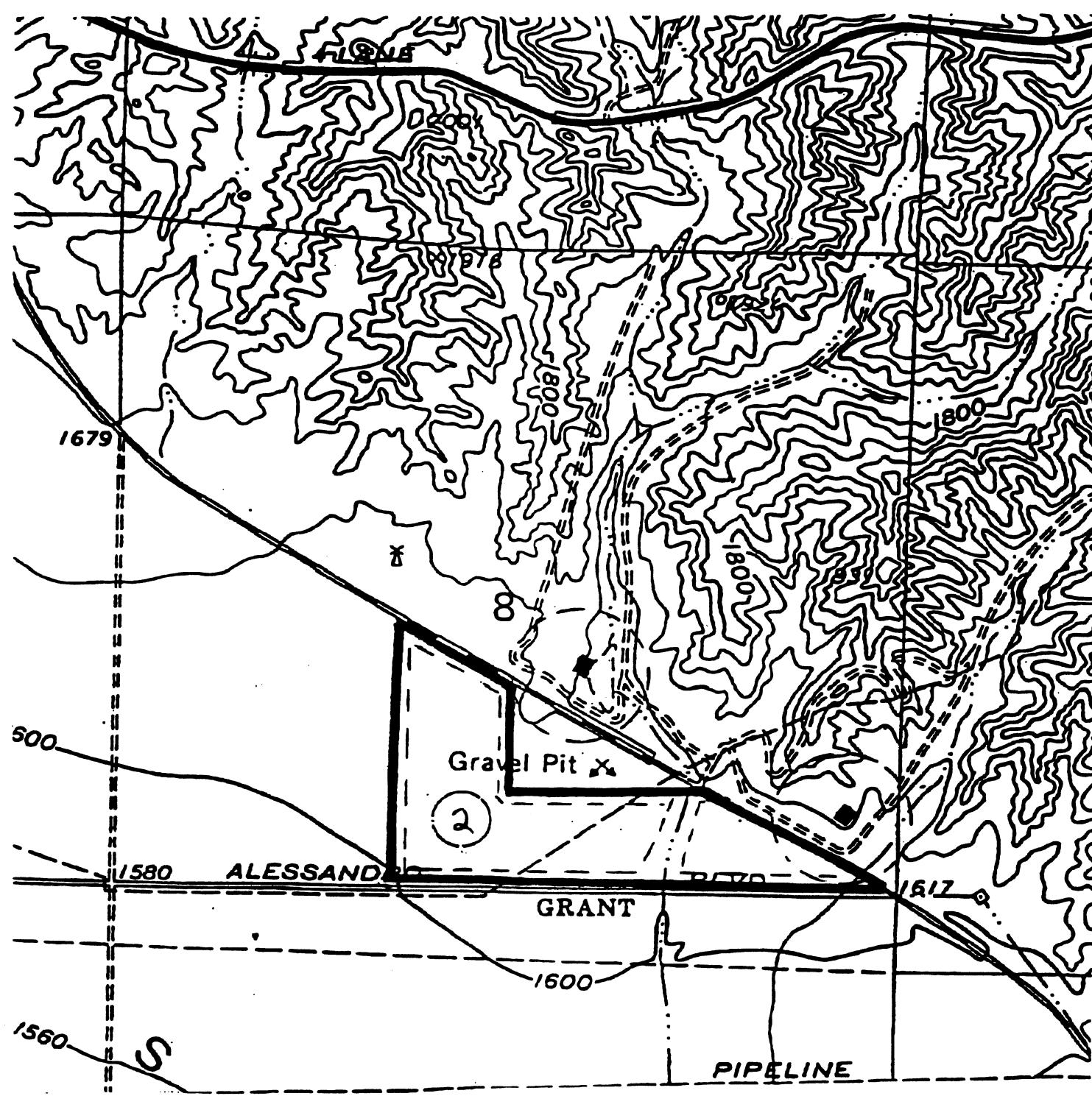
Site Summary Map
RAG Fields (1-2)
Riverside County

RI 43

Source: USGS 7.5 Minute Quad - El Casco

N

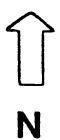
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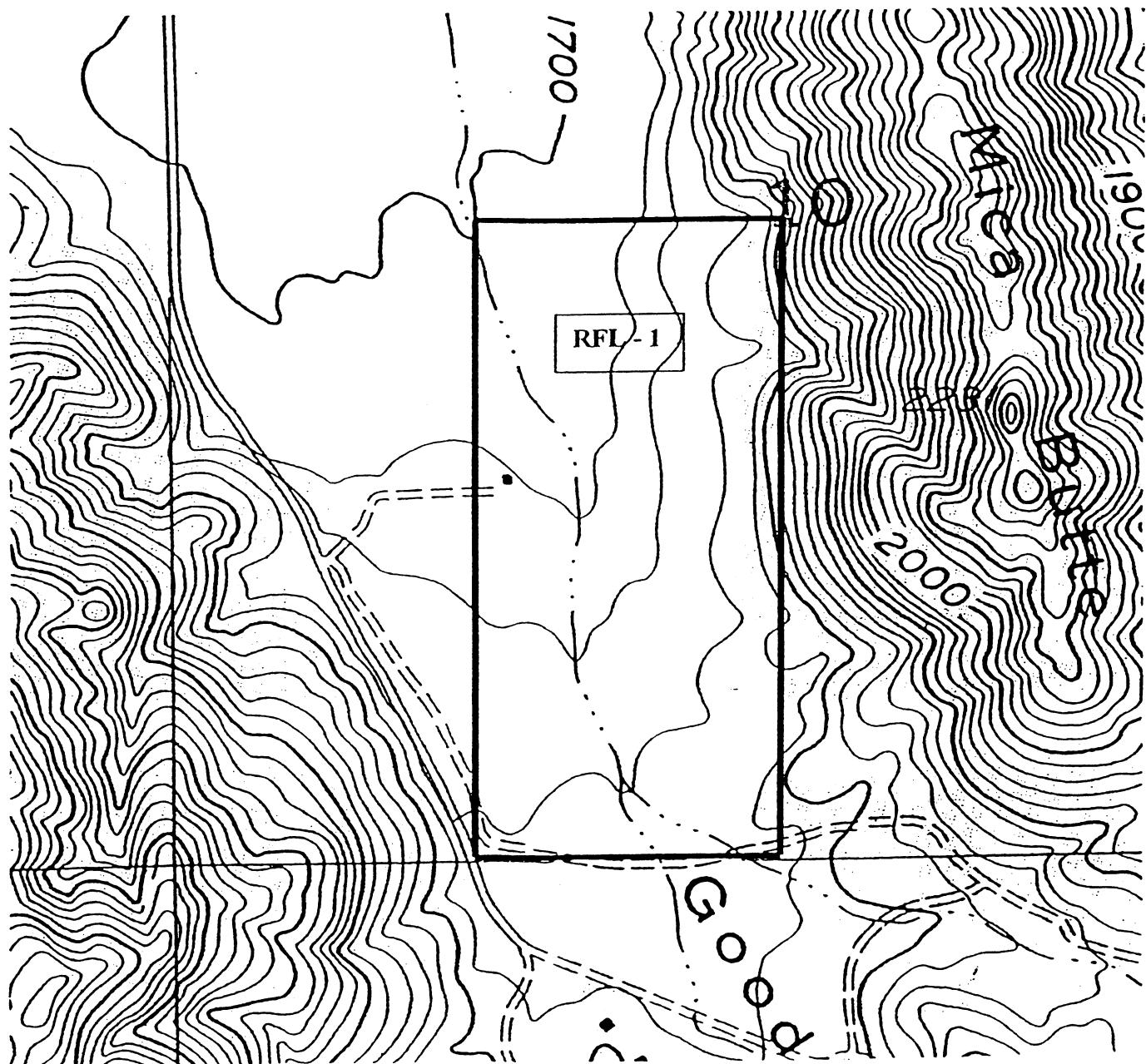
A Residuals Management Company

Scale: 1:24,000

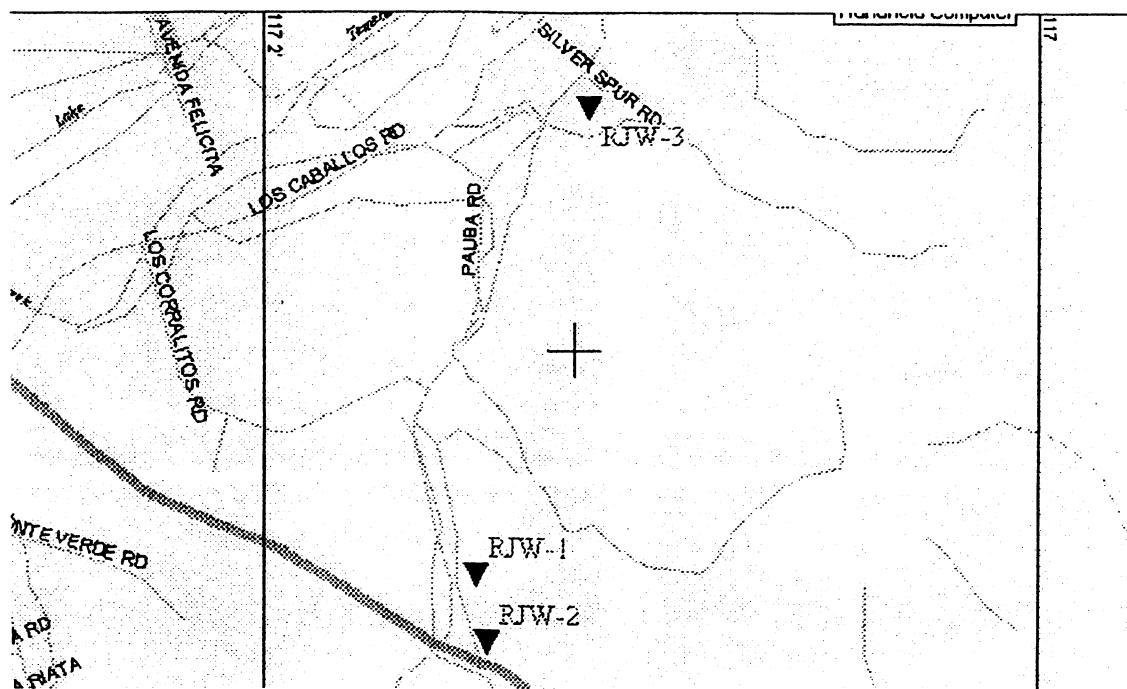


Topographic Map
Field RI-48-1 (RFL-1)
Riverside County

Source: MAPTECH, CALIFORNIA



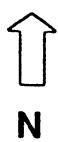
Vicinity Map, Fields CA-RI-52-0-1,-2,-3 (RJW-1,-2,-3), Riverside County





A Residuals Management Company

Scale: 1:24,000

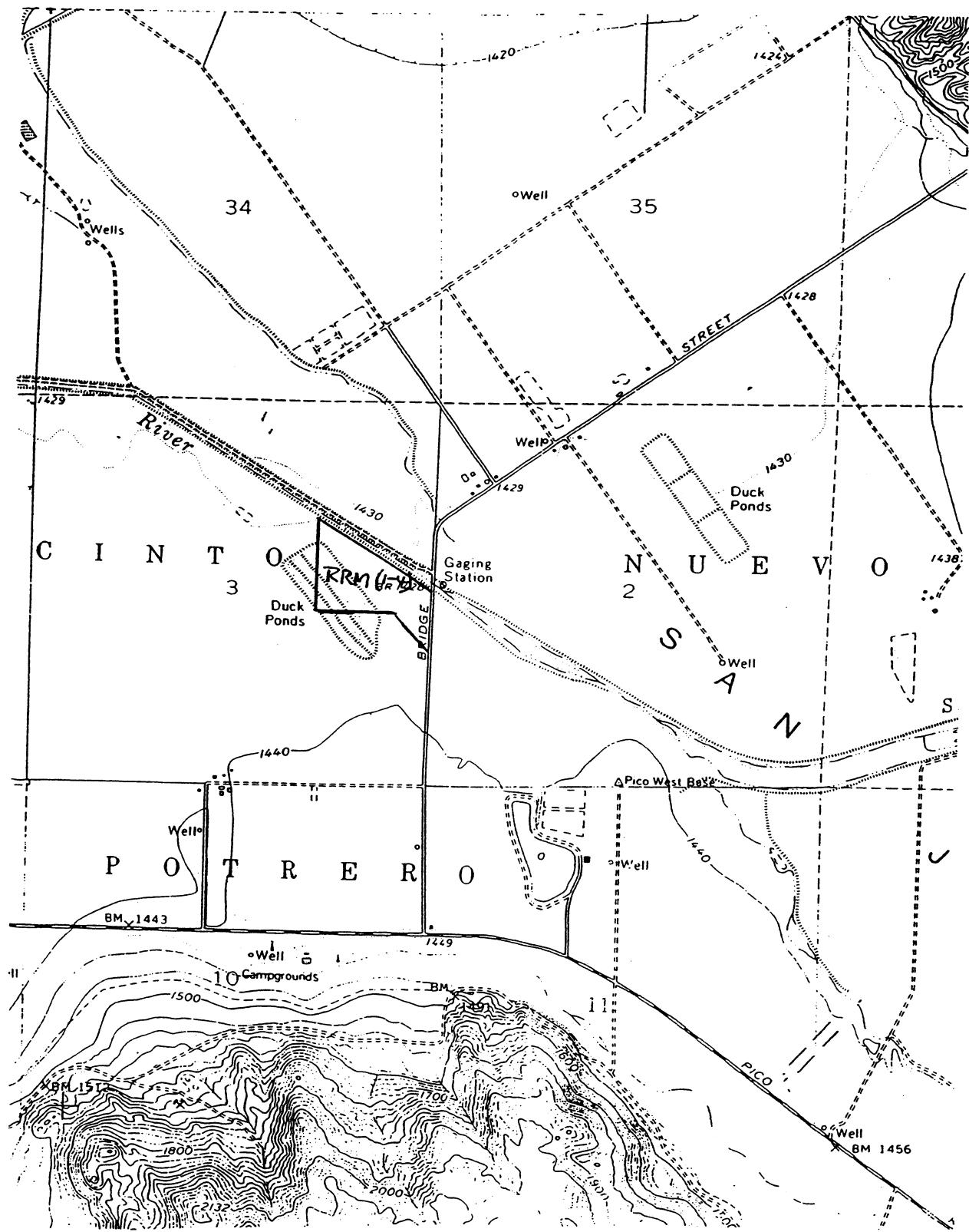


Topographic Map

Field RI-54-1 (RRM-1)

Riverside County

Source: MAPTECH, CALIFORNIA



Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00040-0035

Date Applied

01/19/01
01/22/01
01/23/01
01/23/01
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Field: RI 00042-0007A

Date Applied

02/12/01
02/12/01
02/22/01
02/22/01
02/23/01
02/23/01

Field: RI 00042-0007B

Date Applied

02/06/01
02/06/01
02/07/01
02/07/01
02/08/01
02/08/01

Field: RI 00042-0007C

Date Applied

03/05/01
03/05/01
03/05/01
03/14/01
03/14/01
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03/14/01
03/15/01
03/15/01
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03/15/01

Field: RI 00042-0007D

Date Applied

03/15/01
03/15/01
03/15/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00042-0008B

Date Applied

03/19/01
03/19/01
03/19/01

Field: RI 00042-0009

Date Applied

05/22/01
05/22/01
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05/23/01
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05/23/01

Field: RI 00042-0010

Date Applied

05/24/01
05/24/01
05/24/01
05/24/01

Field: RI 00043-0002

Date Applied

01/12/01

Field: RI 00043-0003

Date Applied

06/07/01
06/07/01
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06/08/01

Field: RI 00048-0001

Date Applied

03/06/01
03/06/01
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03/07/01

Field: RI 00052-0001

Date Applied

01/18/01
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Field: RI 00052-0002

Date Applied

01/23/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00052-0003

Date Applied

01/23/01

01/23/01

Field: RI 00054-0001

Date Applied

03/21/01

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03/21/01

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03/22/01

Field: RI 00056-0002

Date Applied

06/04/01

06/04/01

06/04/01

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Field: RI 00058-0001

Date Applied

03/07/01

03/07/01

03/07/01

03/08/01

03/12/01

Field: RI 00059-00R2

Date Applied

04/13/01

04/13/01

04/13/01

04/14/01

04/16/01

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Field: RI 00059-00R3

Date Applied

04/18/01

04/18/01

04/18/01

04/18/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 00059-00R3

Date Applied

04/18/01
04/19/01
04/19/01
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04/19/01
04/19/01

Field: RI 00059-00R4

Date Applied

04/24/01
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Field: RI 00059-00R5

Date Applied

04/23/01
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Field: RI 09025-0001

Date Applied

05/02/01
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Field: RI 09025-0002

Date Applied

05/07/01
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Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: RIVERSIDE

Field: RI 09025-0002

Date Applied

05/08/01
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05/11/01

Field: RI 09025-0003

Date Applied

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03/13/01

State: California

County: SAN BERNARDINO

Field: SB 00001-0014

Date Applied

12/20/01
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12/27/01
12/28/01

Field: SB 00001-0020

Date Applied

12/29/01

State: California

County: SAN DIEGO

Field: SD 00002-0004

Date Applied

10/25/01

Field: SD 00002-0008

Date Applied

10/09/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: SAN DIEGO

Field: SD 00002-0008

Date Applied

10/10/01
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10/31/01

Field: SD 00002-0009

Date Applied

08/13/01
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09/07/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: SAN DIEGO

Field: SD 00002-0009

Date Applied

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10/04/01

Orange County Sanitation District, CA - Fields Applied in 2001 by Synagro

State: California

County: SAN DIEGO

Field: SD 00002-0009

Date Applied

10/05/01
10/30/01
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11/09/01
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11/12/01
11/13/01

Field: SD 00002-0011

Date Applied

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11/06/01

Field: SD 00002-0012

Date Applied

11/07/01
11/08/01
11/08/01
11/09/01
11/09/01

Synagro**Orange County, CA Land Application Sites - Landowner Information**

	<u>Field</u>	<u>Landowner Name and Address</u>
AZ	MA 00010 0302	WILLIAM PERRY P.O. BOX 1217 BUCKEYE, AZ 85326
AZ	MA 00032 0004	LOWER RIVER RANCH 30251 W. LOWER RIVER RD. BUCKEYE, AZ 85326
AZ	MA 00088 0003	WANDA BRYANT 8203 S. JOHNSON RD. BUCKEYE, AZ 85326
CA	RI 00001 0038	DOMENIGONI FAMILY TRUST P.O. BOX 45 WINCHESTER, CA 92546
CA	RI 00001 0003	CATHERINE POURROY 35320 POURROY RD. WINCHESTER, CA 92596
CA	RI 00001 0005	DENISE ZIONY 640 VAN NESS AVENUE #79 SAN FRANCISCO, CA 94102
CA	RI 00001 0010	KATHRYN CHENG 620 N LOUISE STREET #203 GLEN DALE, CA 91206
CA	RI 00002 0002 D	BERT VERGER 16777 BUNDY CANYON RD. ESCONDIDO, CA 92025
CA	RI 00005 0002 C	JOHN V. MOTTE 445 S "D" STREET PERRIS, CA 92570
CA	RI 00005 0002 D	JOHN V. MOTTE 445 S "D" STREET PERRIS, CA 92570
CA	RI 00005 0011 A	JOHN V. MOTTE 445 S "D" STREET PERRIS, CA 92570

	<u>Field</u>	<u>Landowner Name and Address</u>
CA	RI 00005 0011 B	JOHN V. MOTTE 445 S "D" STREET PERRIS, CA 92570
CA	RI 00005 0014	JOHN V. MOTTE 445 S "D" STREET PERRIS, CA 92570
CA	RI 00005 0015	JOHN V. MOTTE 445 S "D" STREET PERRIS, CA 92570
CA	RI 00030 0009	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0014	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0015	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0016	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0083	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0084	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0085	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0086	BOBBY HULL 29501 NEIGHBORS BLVD BLYTHE, CA 92225
CA	RI 00030 0033	DAVID NOWELL 4353 FALLEN LEAF LANE GLENDALE, AZ 85310

<u>Field</u>	<u>Landowner Name and Address</u>
CA RI 00030 0094 E	WARREN BENEFIELD 4331 E. SAN REMO AVE. HIGLEY, AZ 85236-9258
CA RI 00030 0094 W	WARREN BENEFIELD 4331 E. SAN REMO AVE. HIGLEY, AZ 85236-9258
CA RI 00030 0095	WARREN BENEFIELD 4331 E. SAN REMO AVE. HIGLEY, AZ 85236-9258
CA RI 00040 0035	COUNTY OF RIVERSIDE 4080 LEMON STREET RIVERSIDE, CA 92502
CA RI 00040 0007 E	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0013	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0014	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0017 C	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0017 E	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0017 W	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0028 B	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596
CA RI 00040 0028 C	DOMENIGONI BROS. RANCH 31851 WINCHESTER ROAD WINCHESTER, CA 92596

		<u>Field</u>	<u>Landowner Name and Address</u>
CA	RI	00040 0022	ALEX BOREL 30195 AULD ROAD MURIETA, CA 92563
CA	RI	00040 0029	DAVE LEDBETTER 28990 OLD MINE ROAD HEMET, CA 92544
CA	RI	00042 0009	EASTERN MUNIPICAL W.D. P.O. BOX 8300 PERRIS, CA 92572
CA	RI	00042 0010	EASTERN MUNIPICAL W.D. P.O. BOX 8300 PERRIS, CA 92572
CA	RI	00042 0007 A	BERT VERGER 16777 BUNDY CANYON RD. ESCONDIDO, CA 92025
CA	RI	00042 0007 B	BERT VERGER 16777 BUNDY CANYON RD. ESCONDIDO, CA 92025
CA	RI	00042 0008 B	BERT VERGER 16777 BUNDY CANYON RD. ESCONDIDO, CA 92025
CA	RI	00042 0007 C	RICHARD DE VUYST 29250 LAKEVIEW AVE NUEVO, CA 92567
CA	RI	00042 0007 D	RICHARD DE VUYST 29250 LAKEVIEW AVE NUEVO, CA 92567
CA	RI	00043 0002	A&G, INC. 3630 GARREY AVE. SANTA ANA, CA 92704
CA	RI	00043 0003	A&G, INC. 3630 GARREY AVE. SANTA ANA, CA 92704
CA	RI	00048 0001	FRANK LILLO 31499 CORALEE LANE HEMET, CA 92543

	<u>Field</u>	<u>Landowner Name and Address</u>
CA	RI 00052 0001	JAMES WILKINSON P.O. BOX 37 TEMECULA, CA 92593
CA	RI 00052 0002	JAMES WILKINSON P.O. BOX 37 TEMECULA, CA 92593
CA	RI 00052 0003	RAY RICH 36540 SILVER SPUR RD. TEMECULA, CA 92592
CA	RI 00054 0001	EVERETT N. LIST 18875 BRIDGE STREET LAKEVIEW, CA 92567
CA	RI 00056 0002	WARREN & CHARLENE KELLOGG 1951 W. KEY COLTON, CA 92324
CA	RI 00058 0001	VALENTINE CENOV 34491 WASHINGTON STREET WINCHESTER, CA 92596
CA	RI 00059 00R2	RICHARDSON FAMILY TRUST RT. 1 BOX 4 FAXON, OK 73540-9703
CA	RI 00059 00R3	RICHARDSON FAMILY TRUST RT. 1 BOX 4 FAXON, OK 73540-9703
CA	RI 00059 00R4	RICHARDSON FAMILY TRUST RT. 1 BOX 4 FAXON, OK 73540-9703
CA	RI 00059 00R5	RICHARDSON FAMILY TRUST RT. 1 BOX 4 FAXON, OK 73540-9703
CA	RI 09025 0001	SYNAGRO 1800 BERING DRIVE SUITE 100 HOUSTON, TX 77057
CA	RI 09025 0002	SYNAGRO 1800 BERING DRIVE SUITE 100 HOUSTON, TX 77057

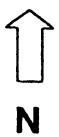
	<u>Field</u>	<u>Landowner Name and Address</u>
CA	RI 09025 0003	SYNAGRO 1800 BERING DRIVE SUITE 100 HOUSTON, TX 77057
CA	SB 00001 0014	FT. MOHAVE INDIAN TRIBE P.O. BOX 5229 MOHAVE VALLEY, AZ 86446
CA	SB 00001 0020	FT. MOHAVE INDIAN TRIBE P.O. BOX 5229 MOHAVE VALLEY, AZ 86446
CA	SD 00002 0011	BROOKFIELD SHEA OTAY LLC 12865 POINTE DEL MAR WAY #250 DEL MAR, CA 92014
CA	SD 00002 0004	MCMILLIN OTAY RANCH LLC 2727 HOOVER AVE. NATIONAL CITY, CA 91950
CA	SD 00002 0008	MCMILLIN OTAY RANCH LLC 2727 HOOVER AVE. NATIONAL CITY, CA 91950
CA	SD 00002 0009	OTAY LAND CO., LLC 1903 WRIGHT PLACE SUITE 220 CARLSBAD, CA 92008
CA	SD 00002 0012	OTAY LAND CO., LLC 1903 WRIGHT PLACE SUITE 220 CARLSBAD, CA 92008

Topographic Maps Showing Site Locations



SYNAGRO

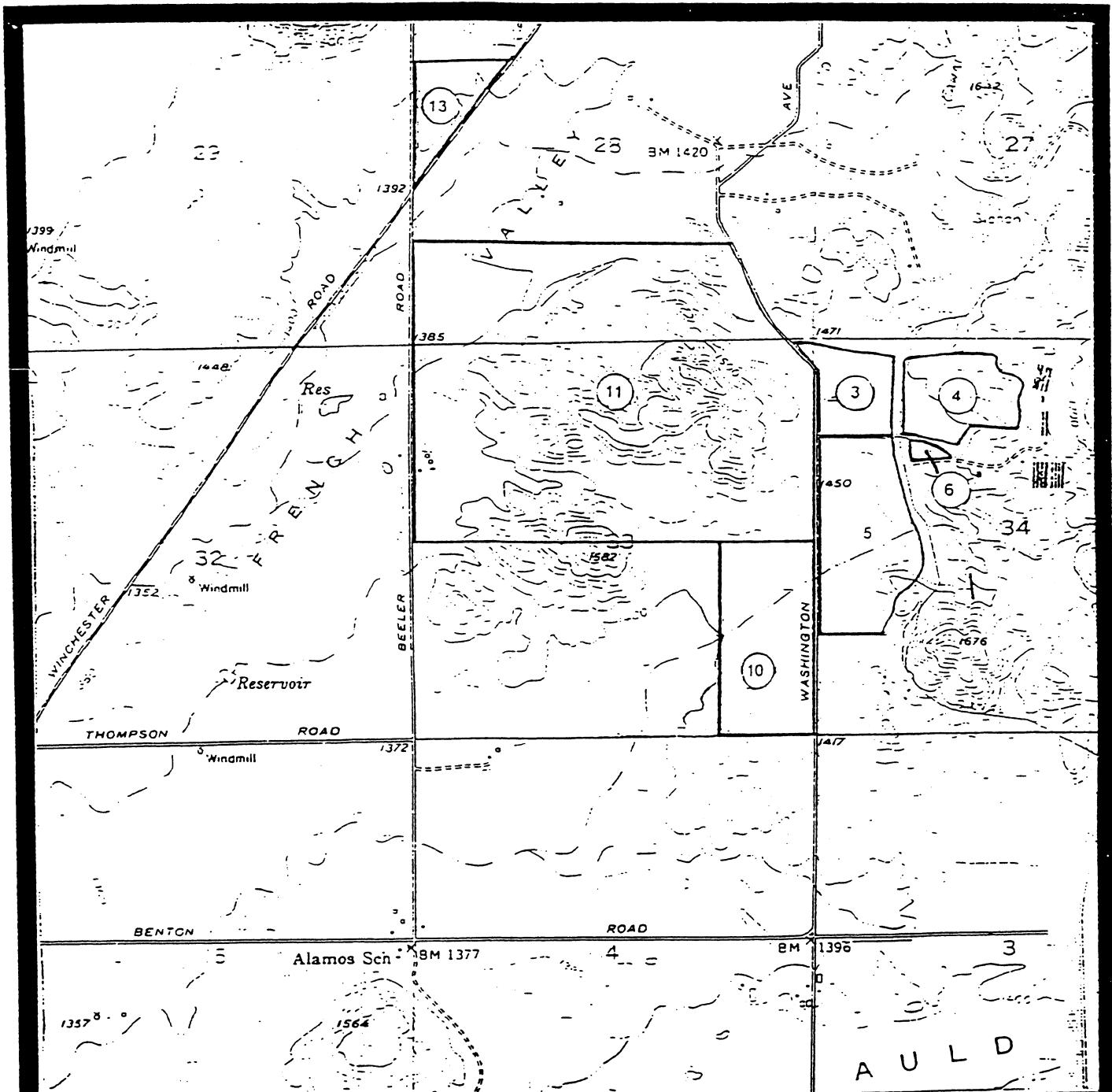
A Residuals Management Company



Topographic Map

Field RI-1

Riverside County



SCALE: 1 : 24,000

RI 1

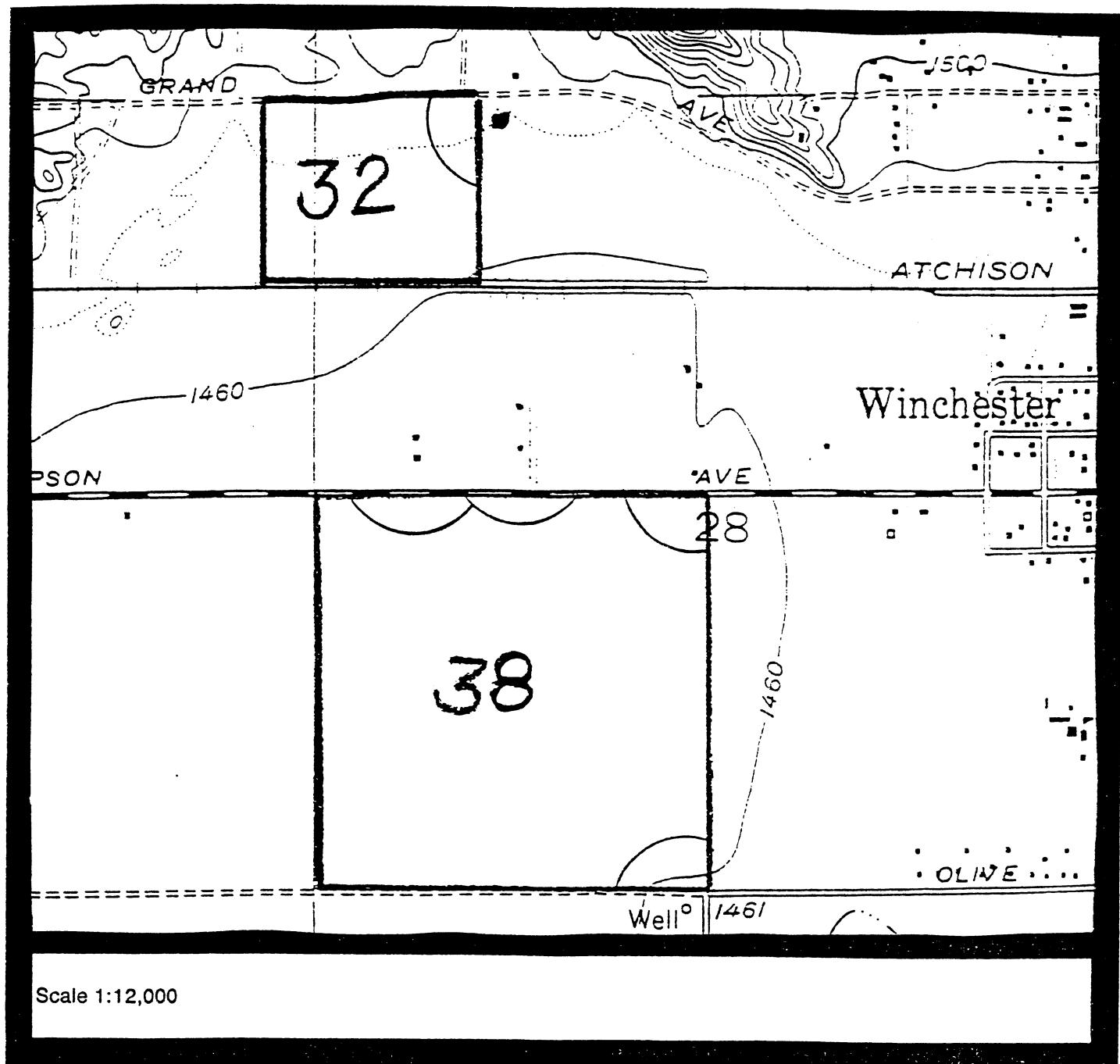
TOPOGRAPHIC MAP



R11



A Residuals Management Company

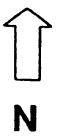


SITE PLAN





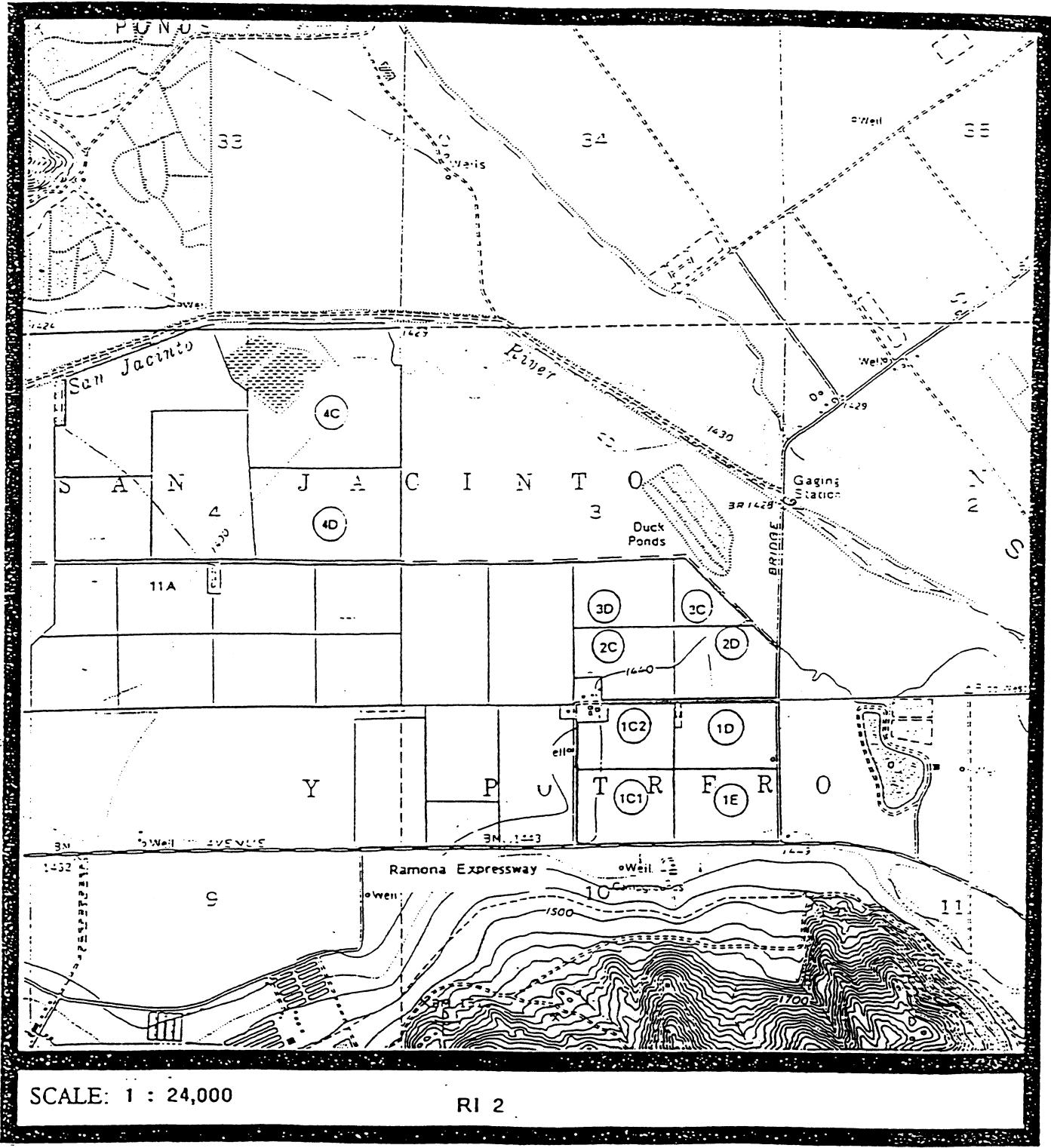
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Topographic Map

Field RI-2-2-D

Riverside County



TOPOGRAPHIC MAP



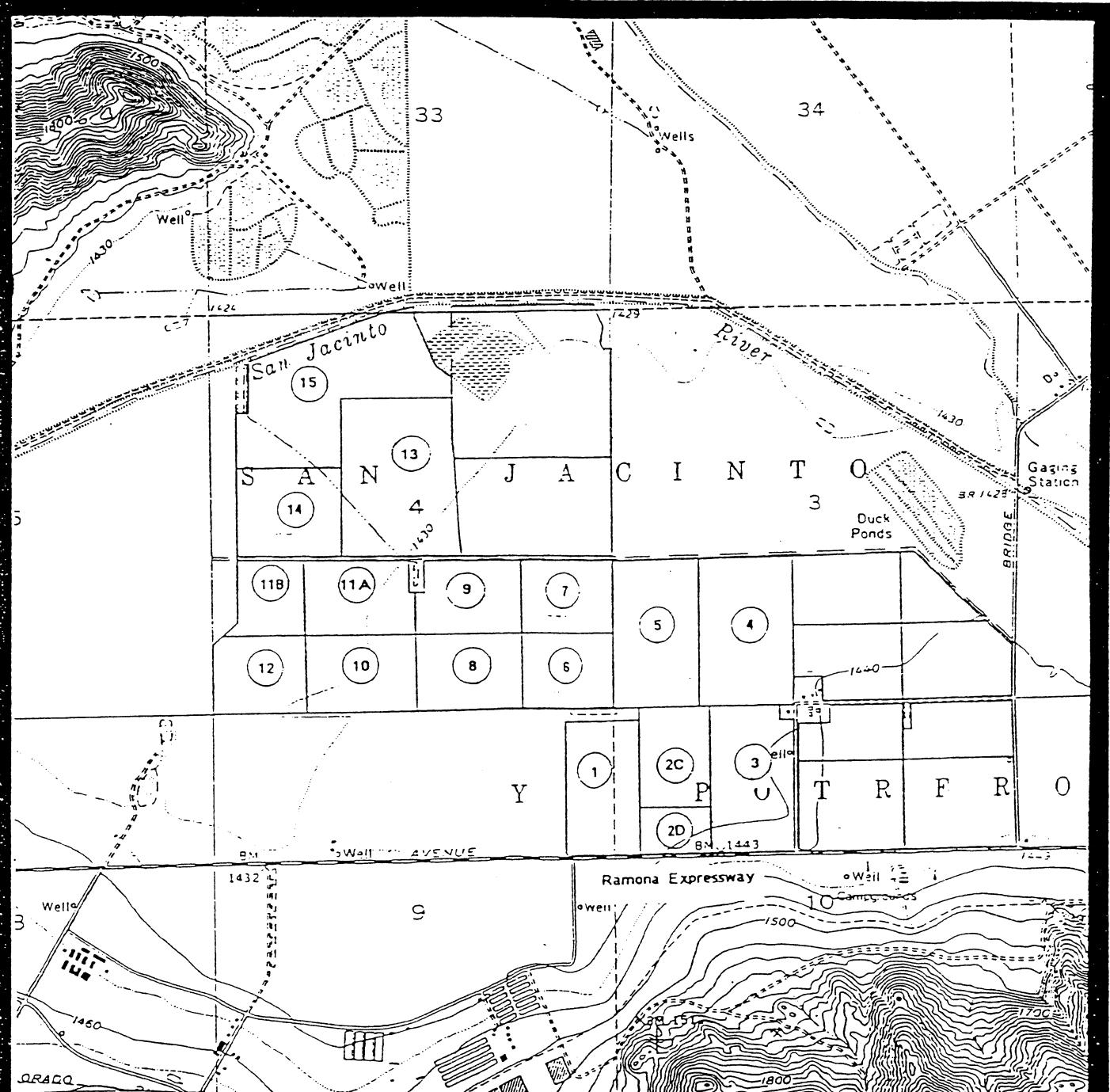


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Topographic Map

Fields RI-5

Riverside County



SCALE: 1 : 24,000

RI 5

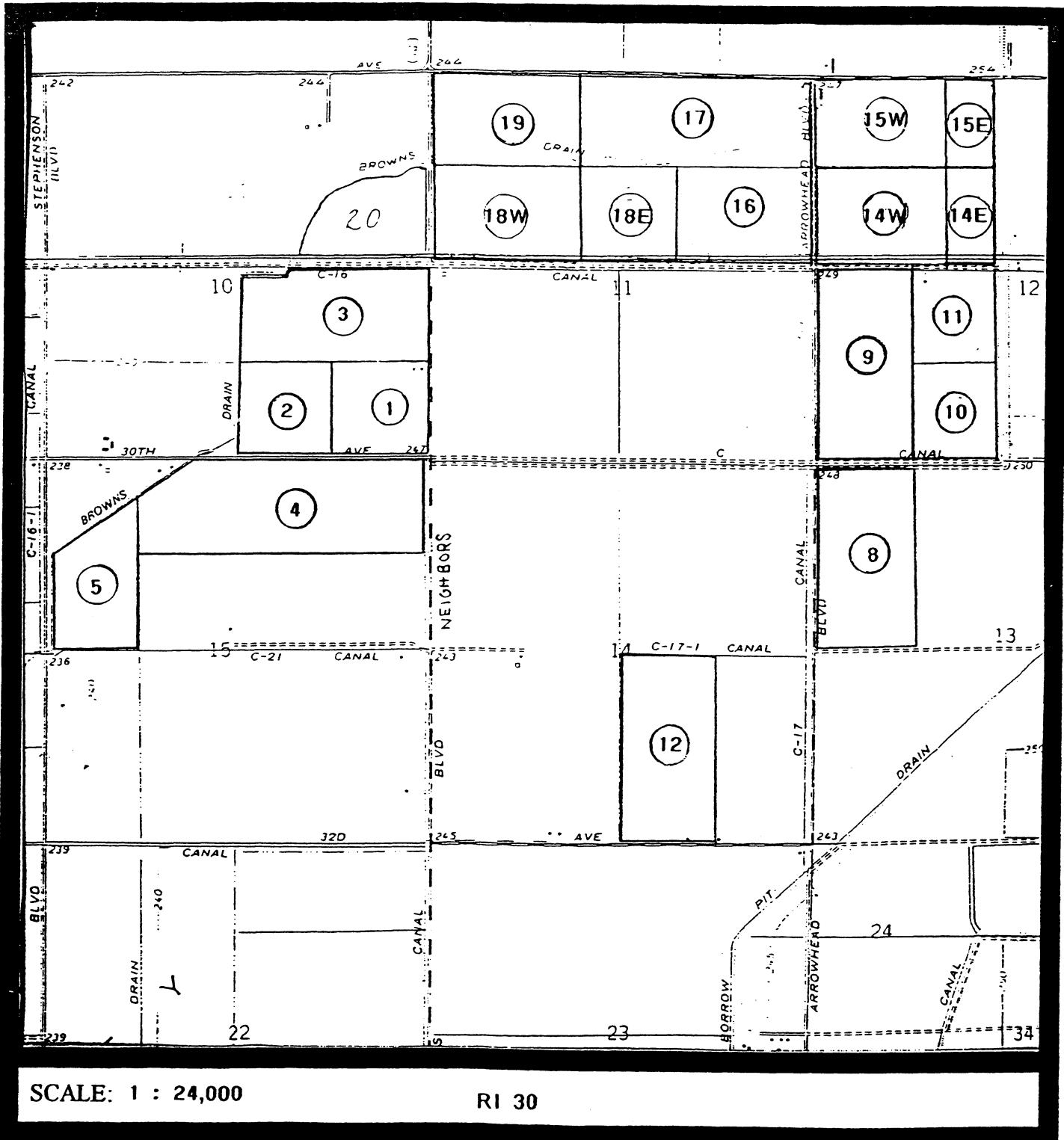
TOPOGRAPHIC MAP

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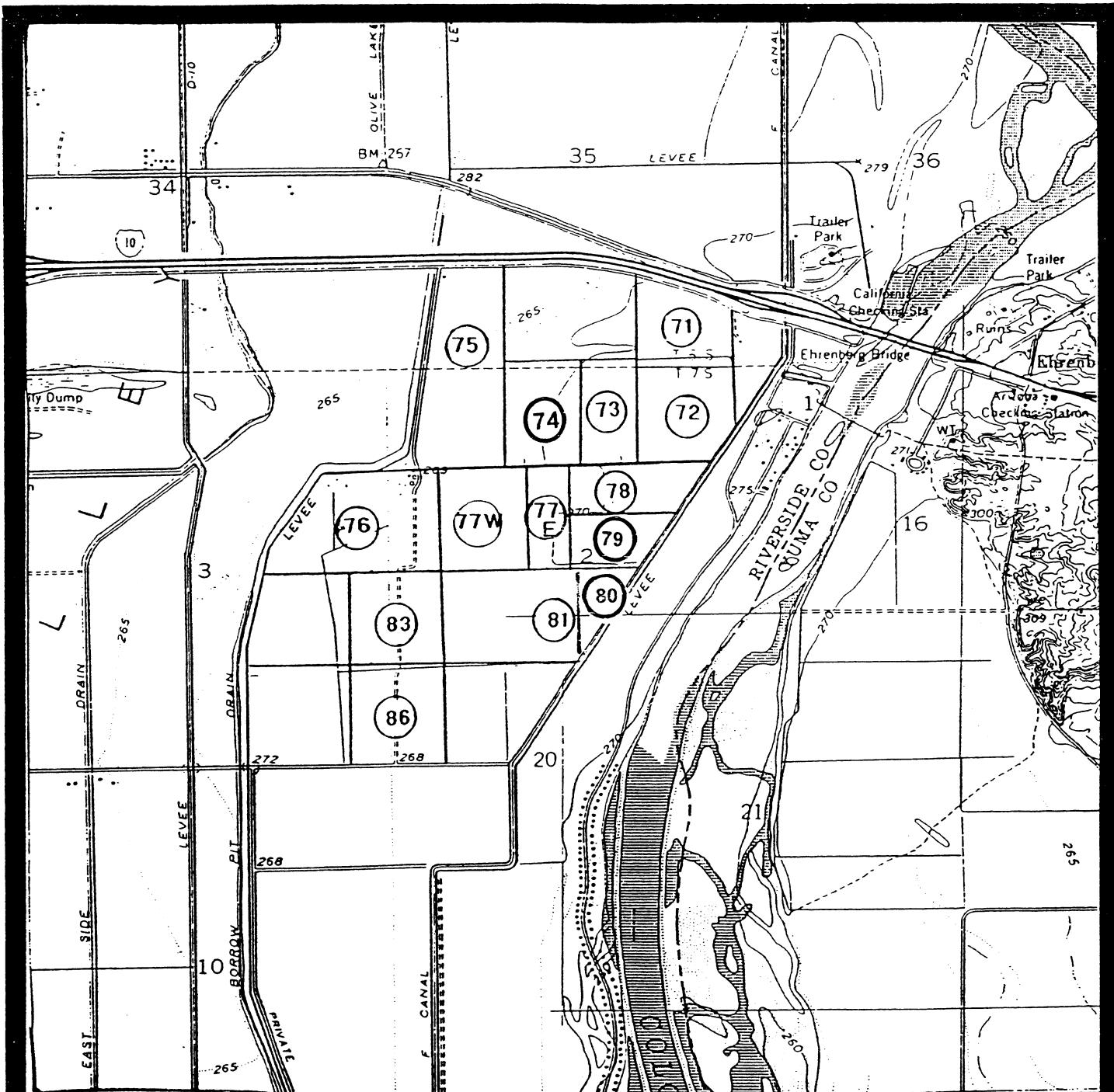
Blythe Area Fields
CA-RI-30-9
CA-RI-30-14
CA-RI-30-15
CA-RI-30-16
Riverside County, California





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Blythe Area Fields
CA-RI-30-83
CA-RI-30-86
Riverside County, California



SCALE: 1 : 24,000

RI 30

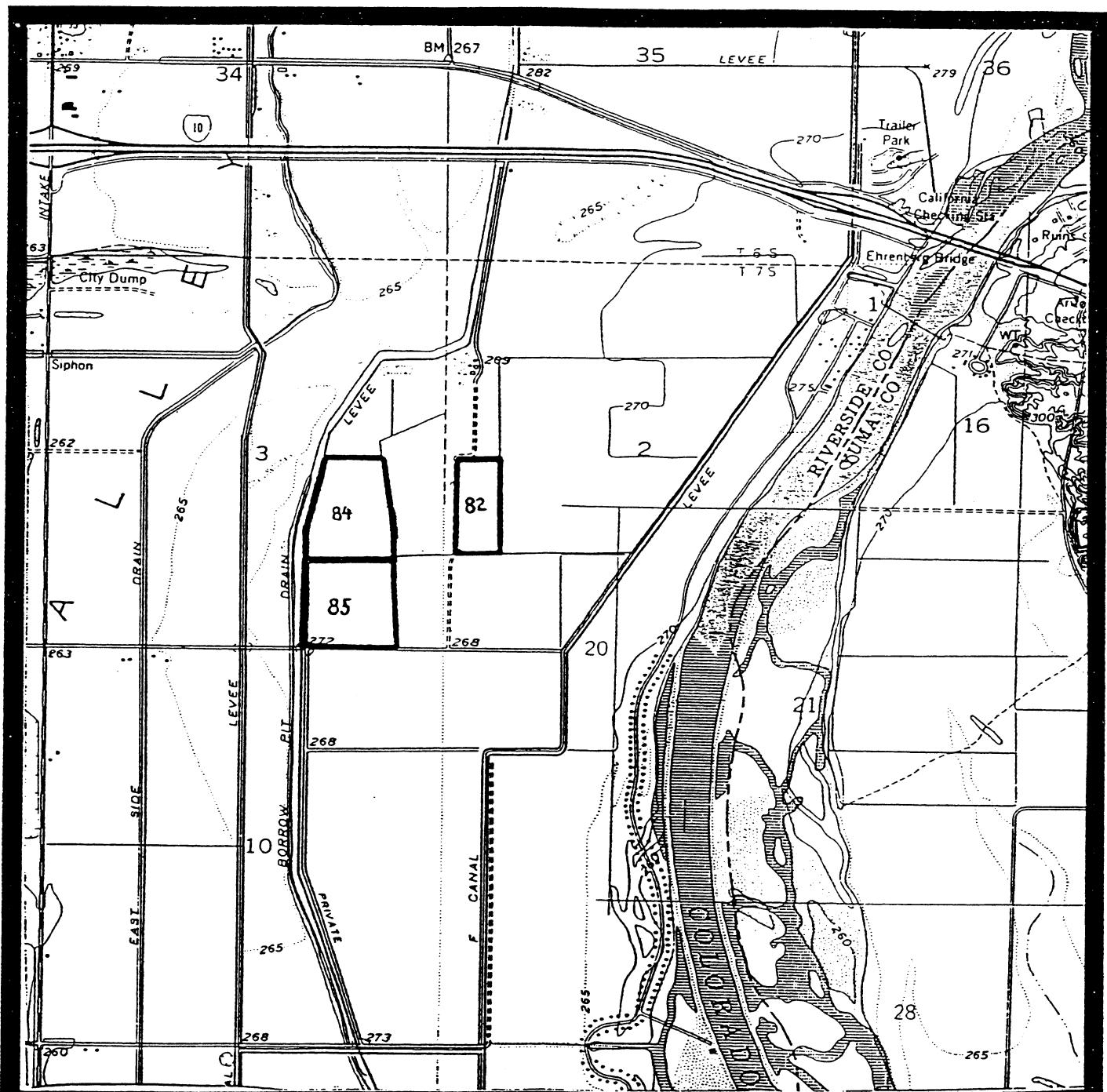
TOPOGRAPHIC MAP





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Blythe Area Fields
CA-RI-30-84
CA-RI-30-85
Riverside County, California



SCALE: 1 : 24,000

RI 30

TOPOGRAPHIC MAP





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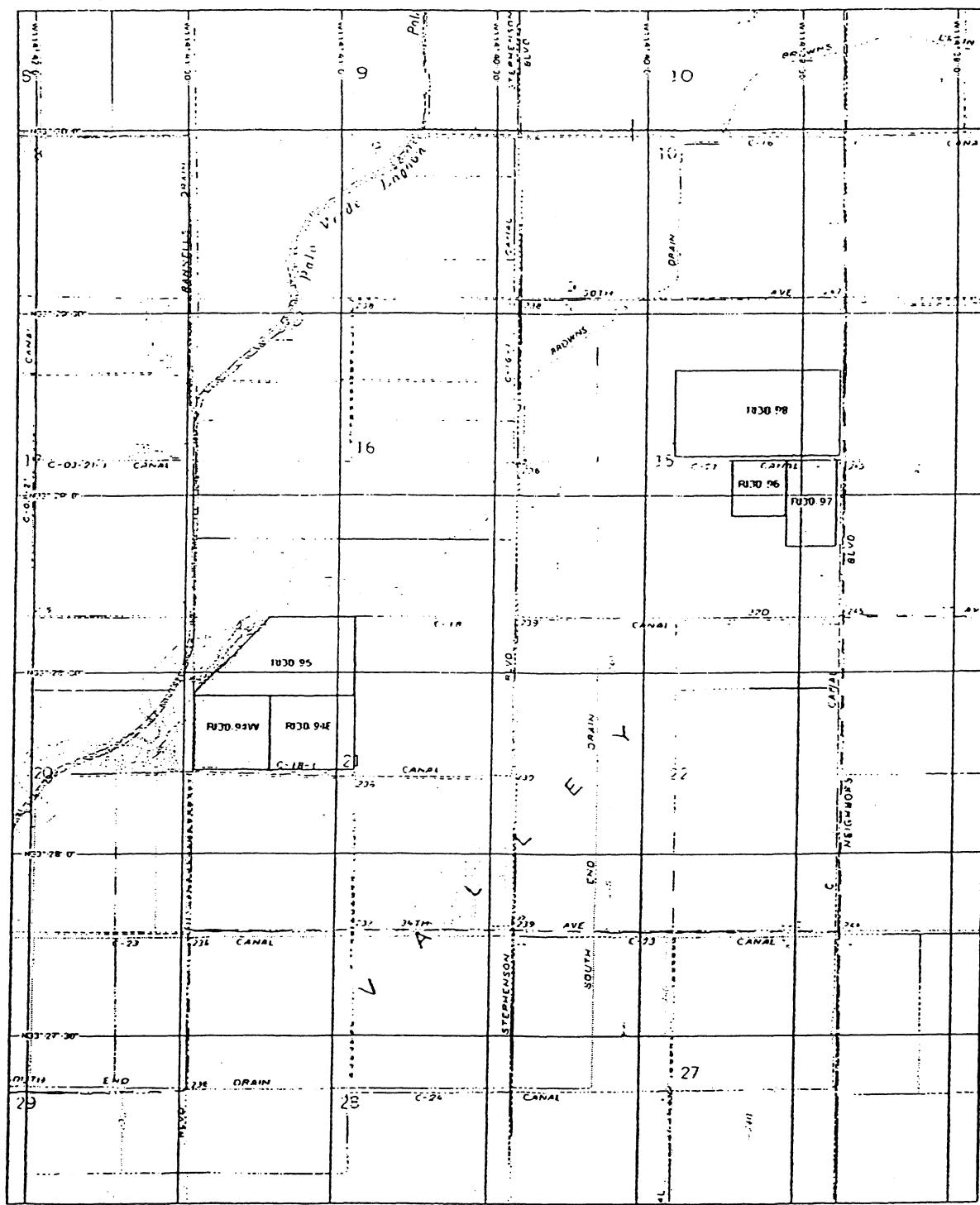
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Topographic Map

Field RI-30-94E
Field RI-30-94W
Field RI-30-95

Riverside County



3 D Topo Quad Copyright © 1999 DeLorme Topographic, ME 04896 Source: Esri, USGS 750 ft Scale 1:25,000 [Detail: 1:8 Depth: WGS 84]

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DEC-05-2001 11:11

SYNAGRO WEST & COMPOSTING

R140-7E

9092772960 P.03

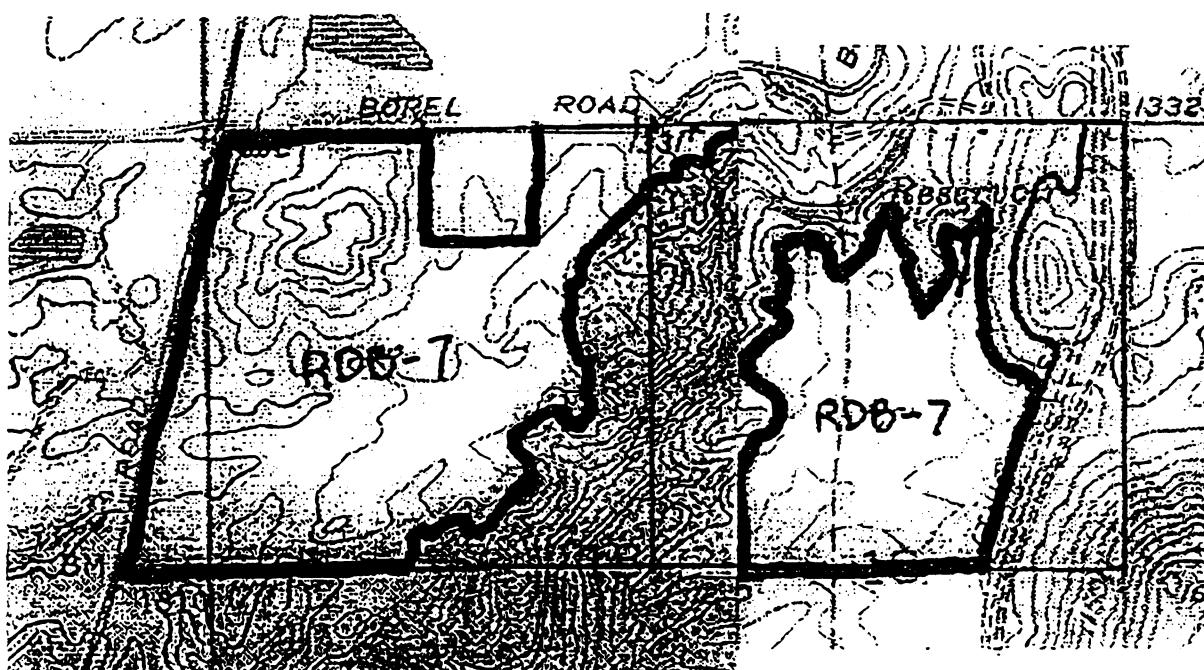
PIMA GRO SYSTEMS INC.
BIOSOLIDS REUSE SPECIALISTS

Scale 1" = 1,150'

Buffer Zones Map
RDB Field 7
Riverside County



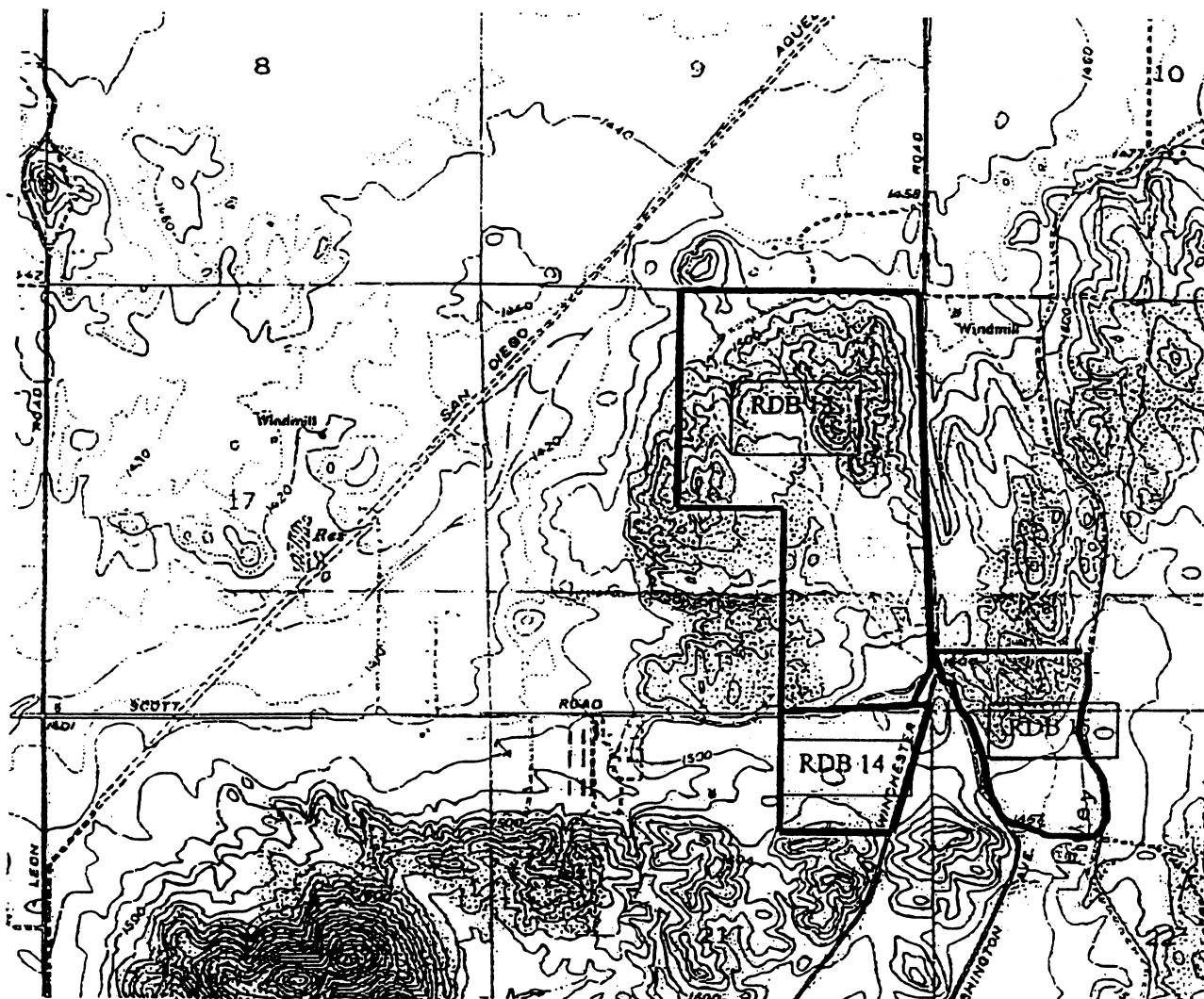
Source: MAPTECH, CALIFORNIA, Ventura, Los Angeles, Orange County



PIMA GRO SYSTEMS INC.
BIOSOLIDS REUSE SPECIALISTS

Topographic Map
RDB Fields 13-15
Riverside County

Source: MAPTECH, CALIFORNIA, Ventura, Los Angeles, Orange County





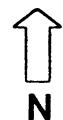
A Residuals Management Company

Scale: 1:24,000

Topographic Map

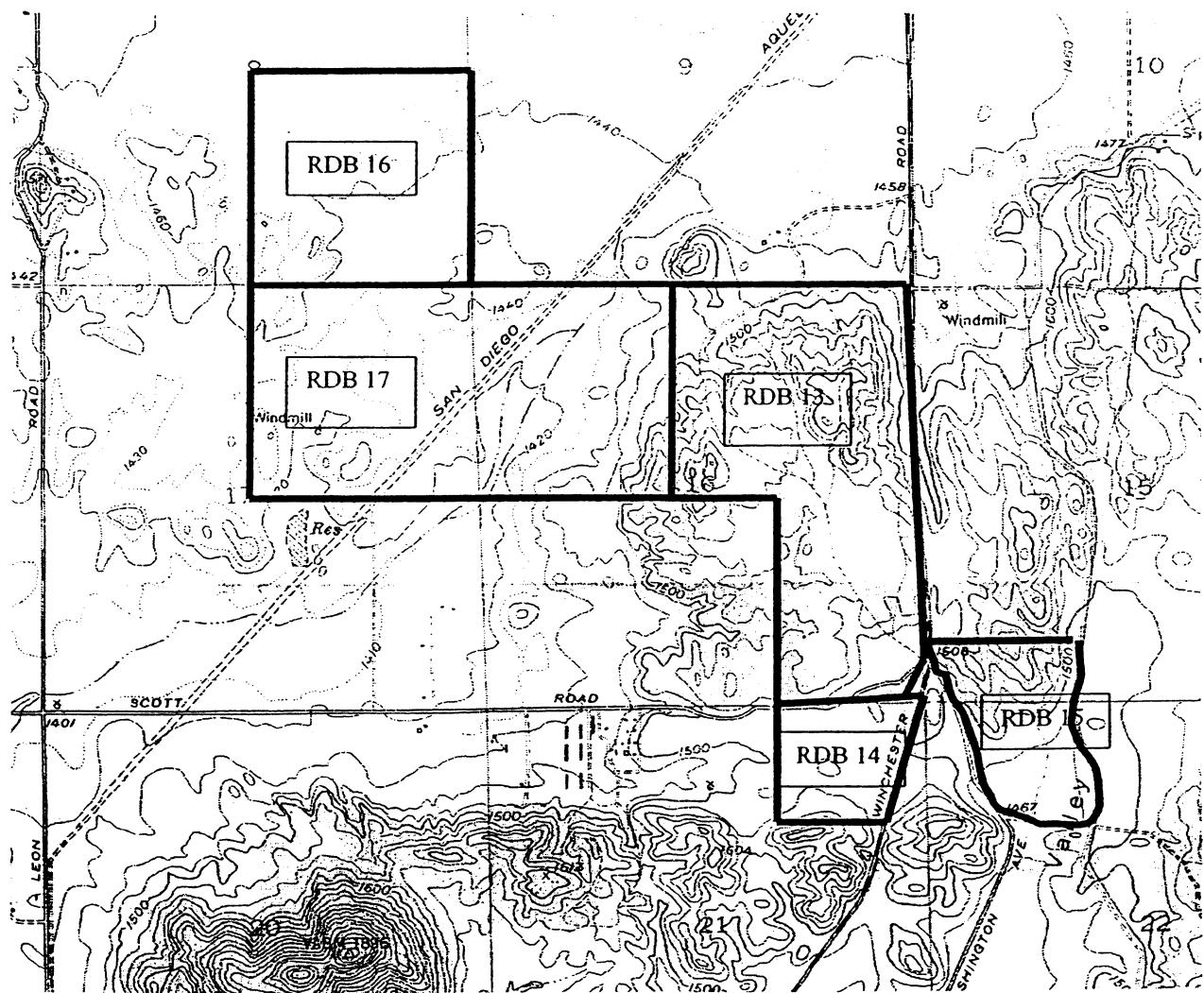
RDB Fields 16-17

CA-RI-40-17B
CA-RI-40-17C
CA-RI-40-17D } (RDB-17)



Riverside County

Source: MAPTECH, CALIFORNIA



R140



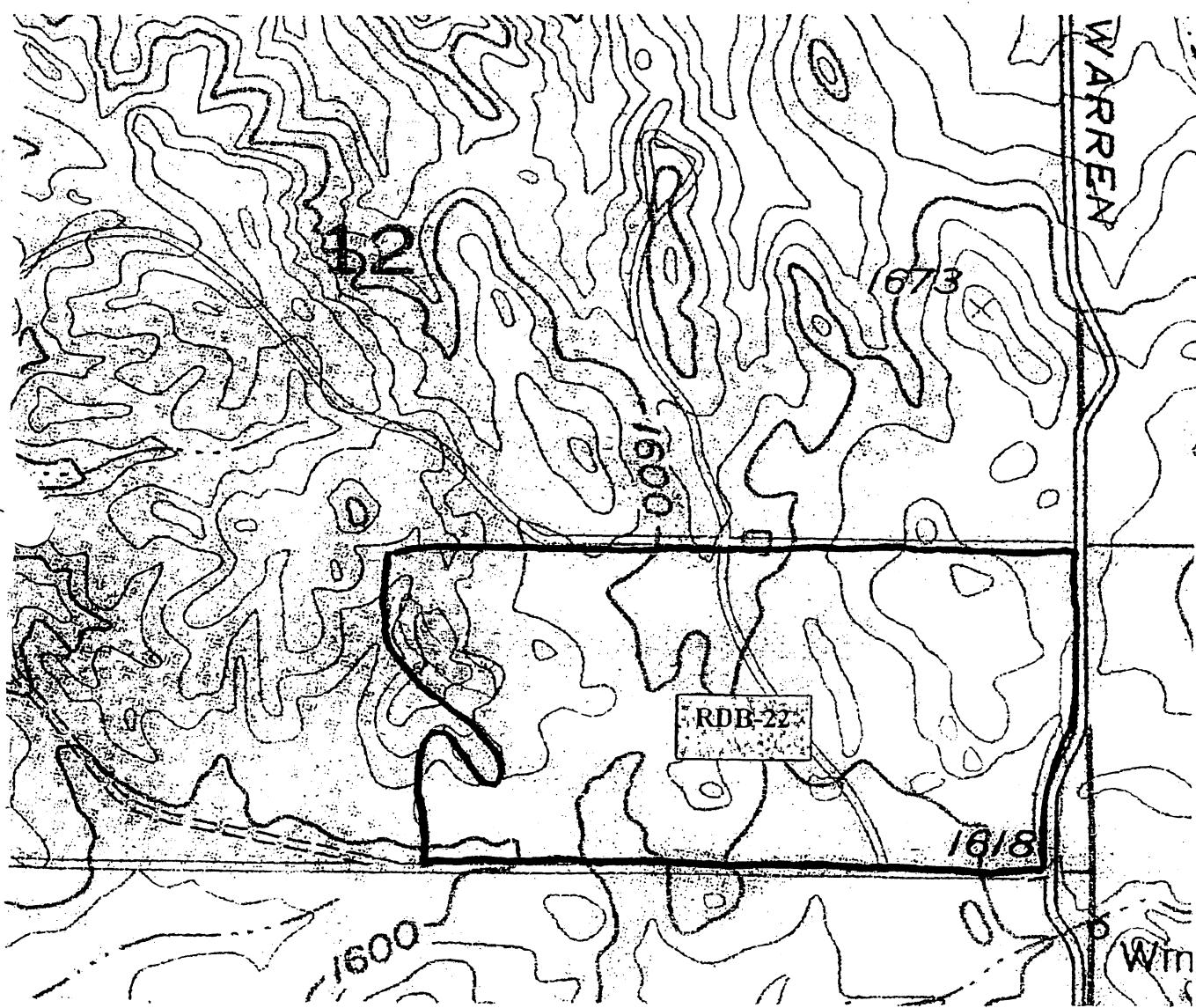
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BIOSOLIDS REUSE SPECIALISTS

Topographic Map
RDB Field 22
Riverside County



Source: MAPTECH, CALIFORNIA, Ventura, Los Angles, Orange County





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Aerial Site Summary
Fields RI-40-28-B (RDB-28B)
and RI-40-28-C (RDB-28C)
Riverside County

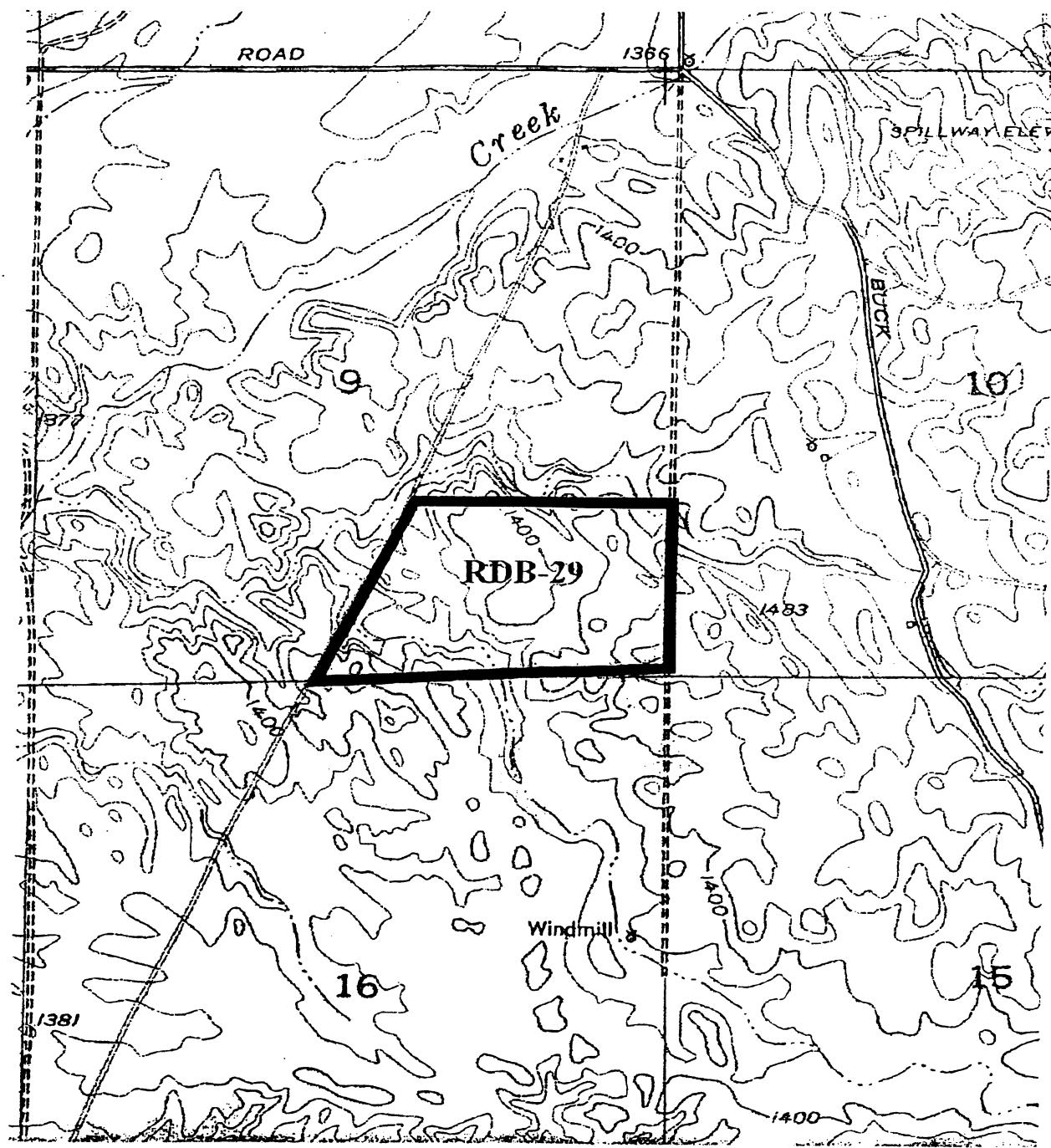


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R140

Topographic Map, RDB-29, Riverside County



R142

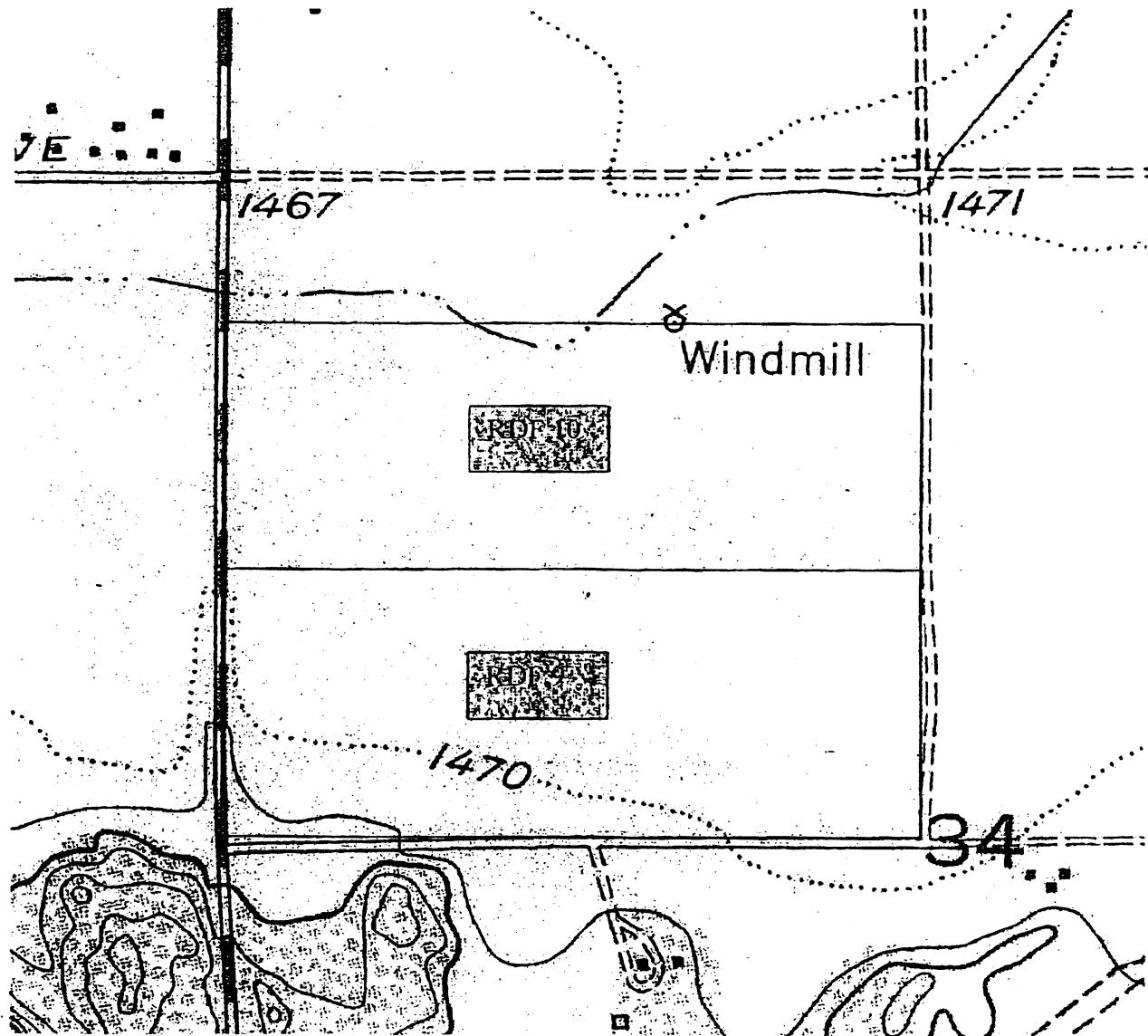


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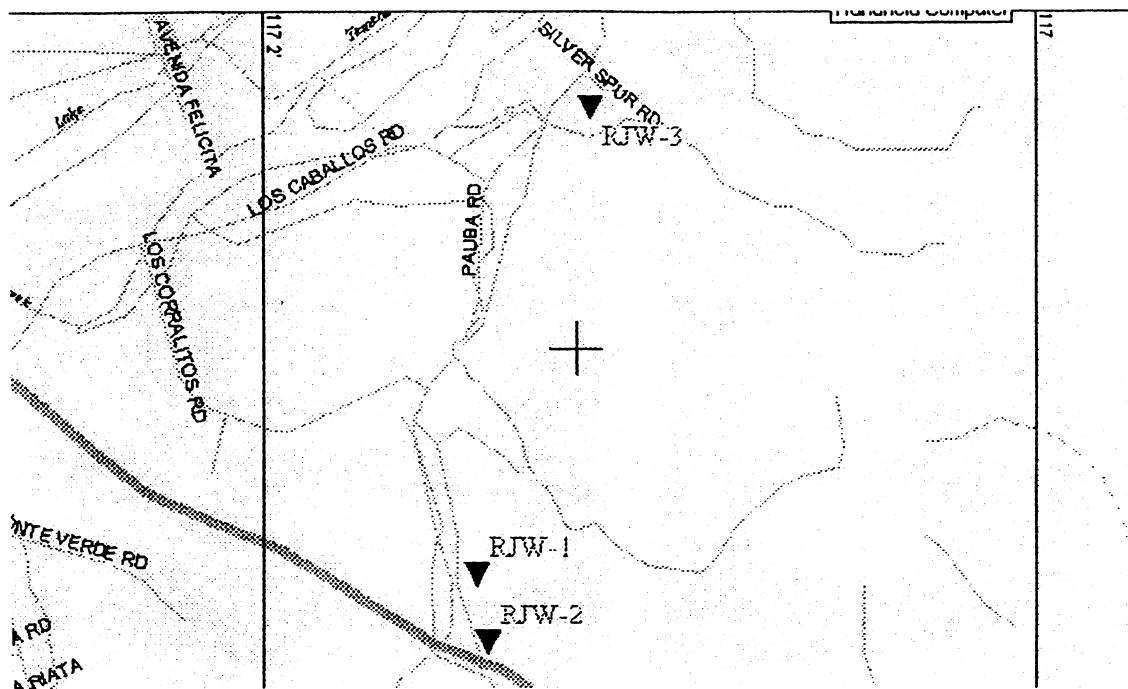
Topographic Map
RDF Fields 9 and 10
Riverside County



Source: MAPTECH, CALIFORNIA, Ventura, Los Angles, Orange County

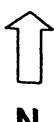


Vicinity Map, Fields CA-RI-52-0-1,-2,-3 (RJW-1,-2,-3), Riverside County





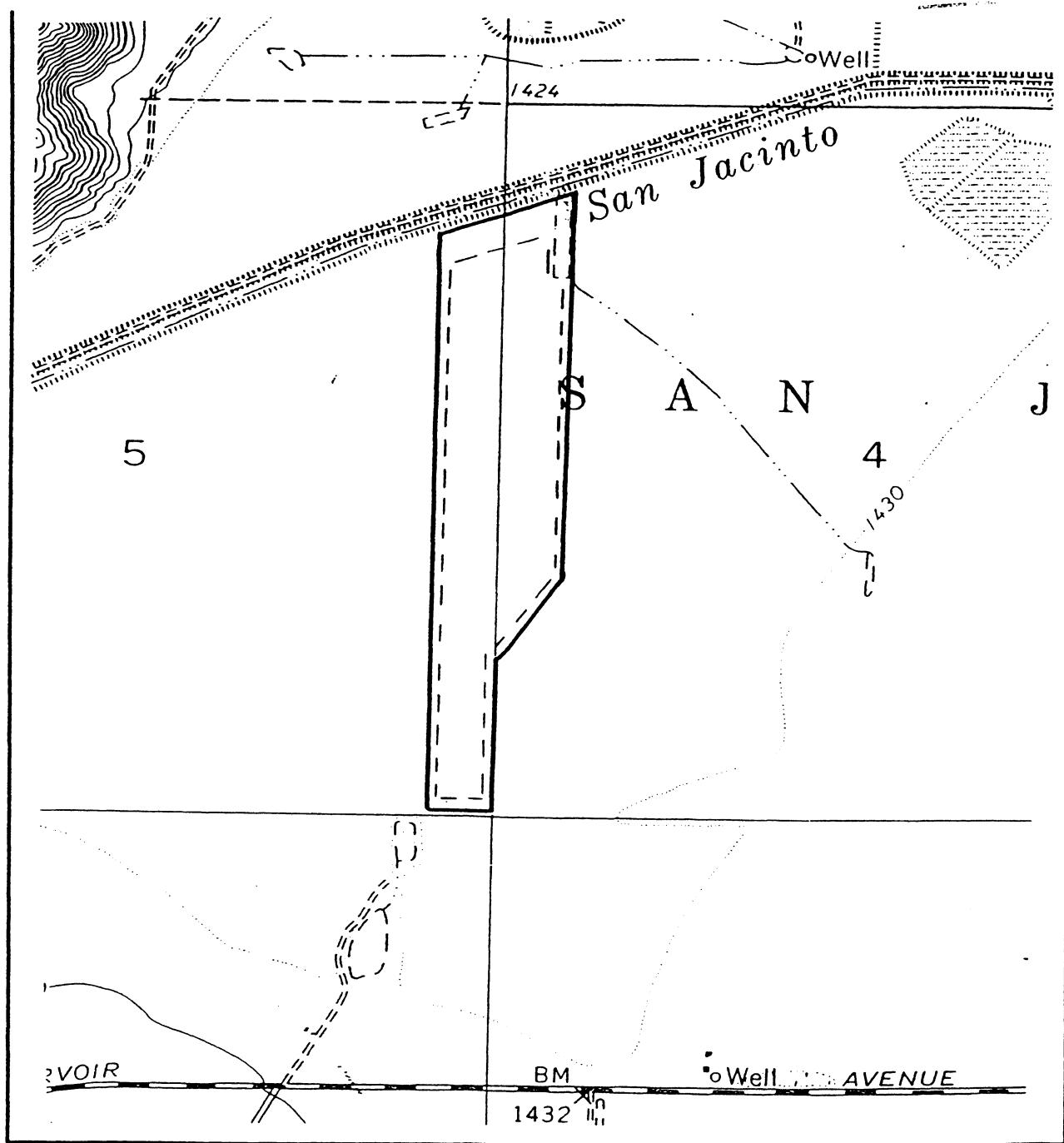
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Site Summary Map

Field RI-56-2 (RPR-1)

Riverside County



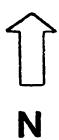
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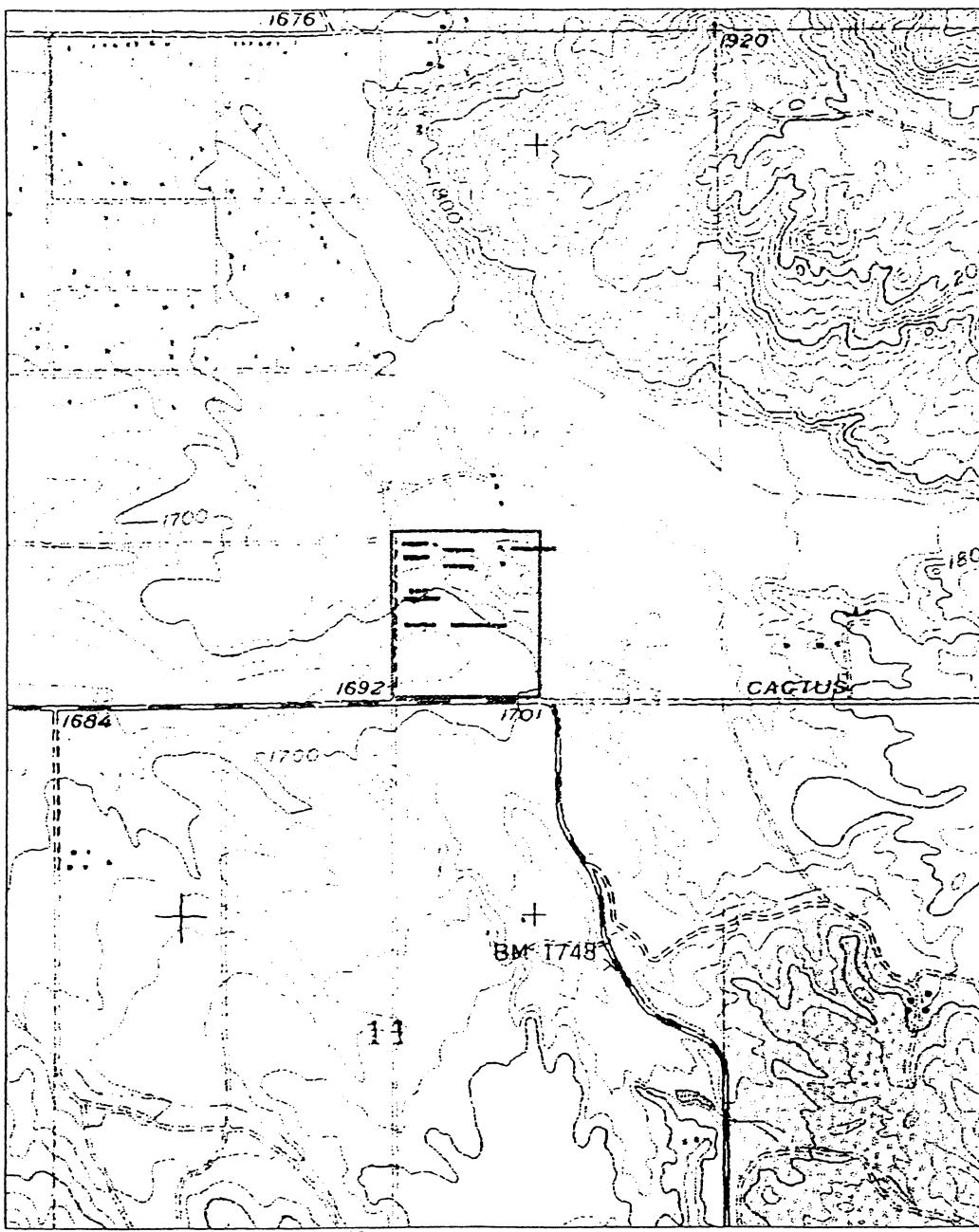
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Scale: 1:12,000



Topographic Map
Field RI-58-1 (RVC-1)
Riverside County

Source: DeLorme 3-D Topo Quads (USGS source data)



3-D Topo Quad Copyright © 1999 DeLorme Yarmouth, ME 04995 Survey Data: RVC-1

1:250,000 Scale: 1:12,000 Date: 15-1 Owner: WCGA

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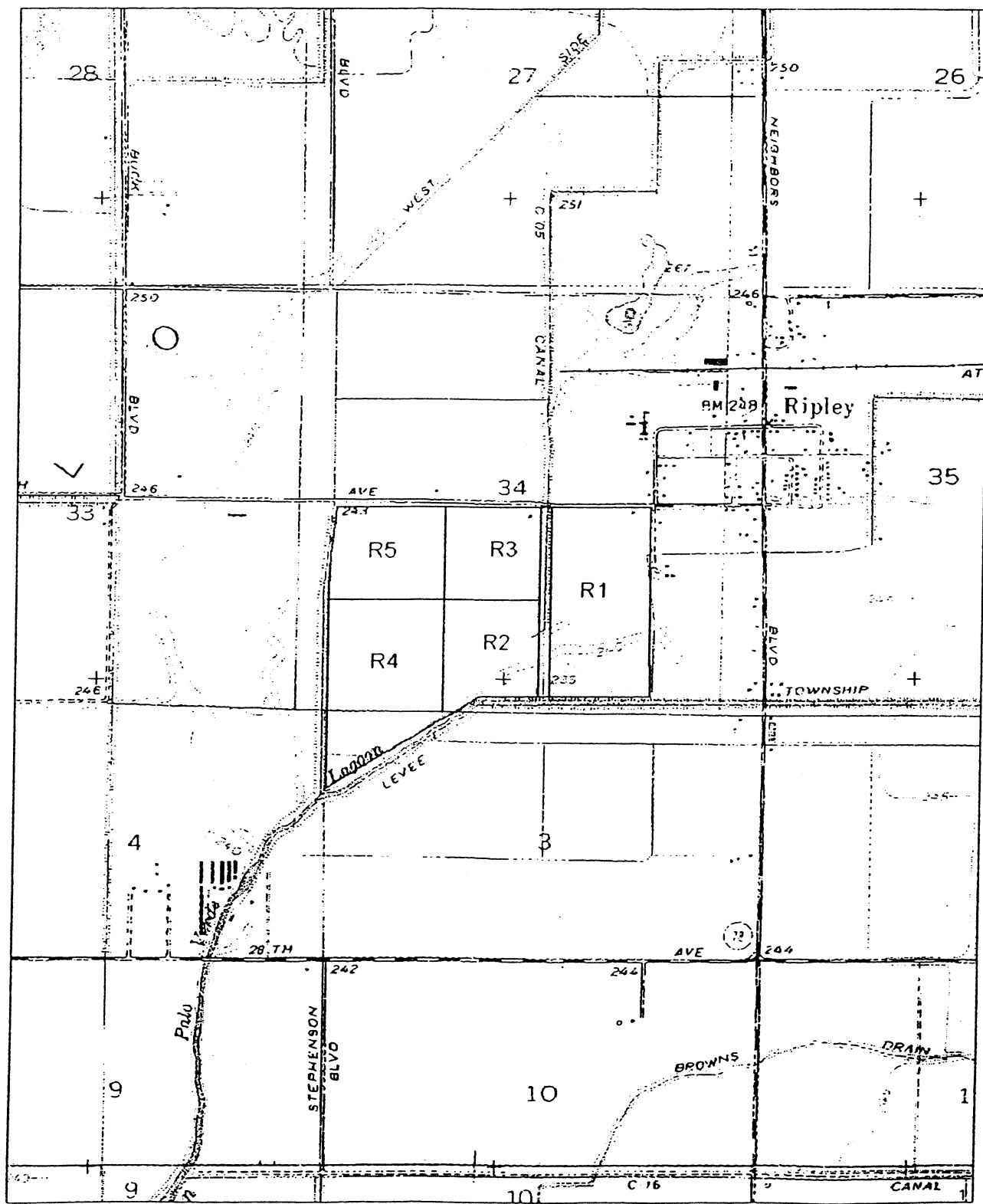
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Topographic Map

Field RI-59-R2
Field RI-59-R3
Field RI-59-R4
Field RI-59-R5

Riverside County

Scale 1:19,200





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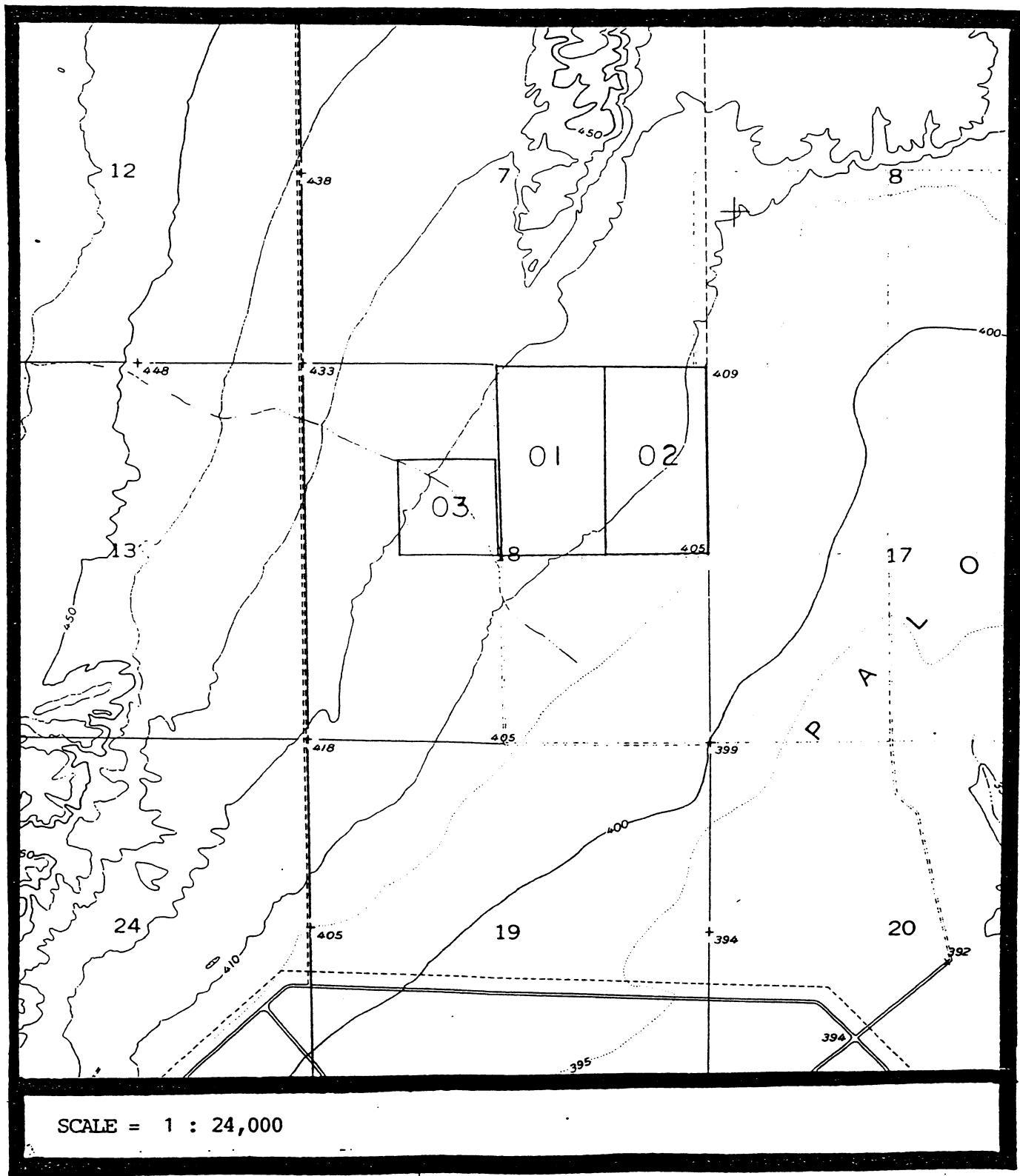
Topographic Map

Field RI-9025-1

Field RI-9025-2

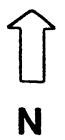
N

Riverside County





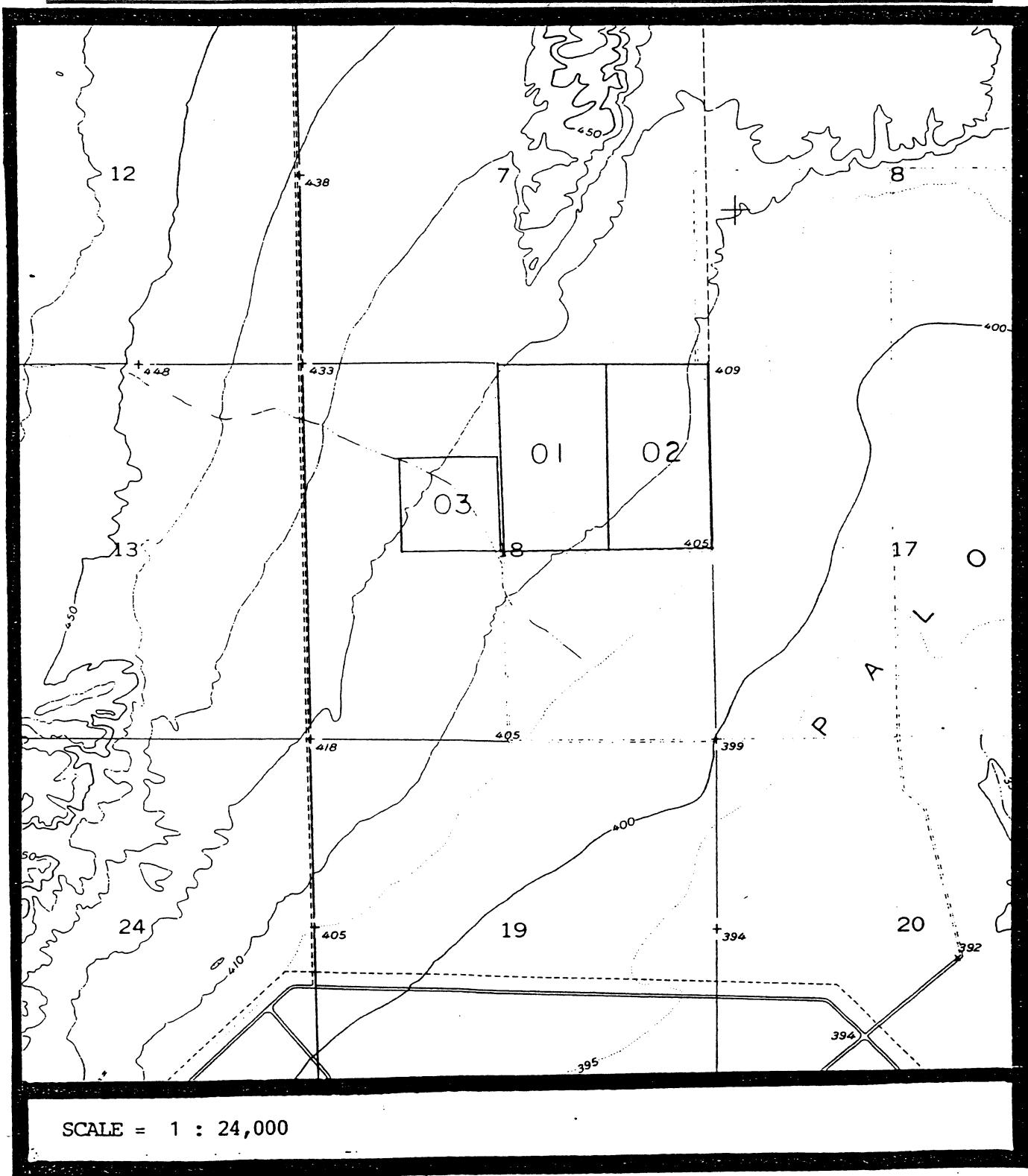
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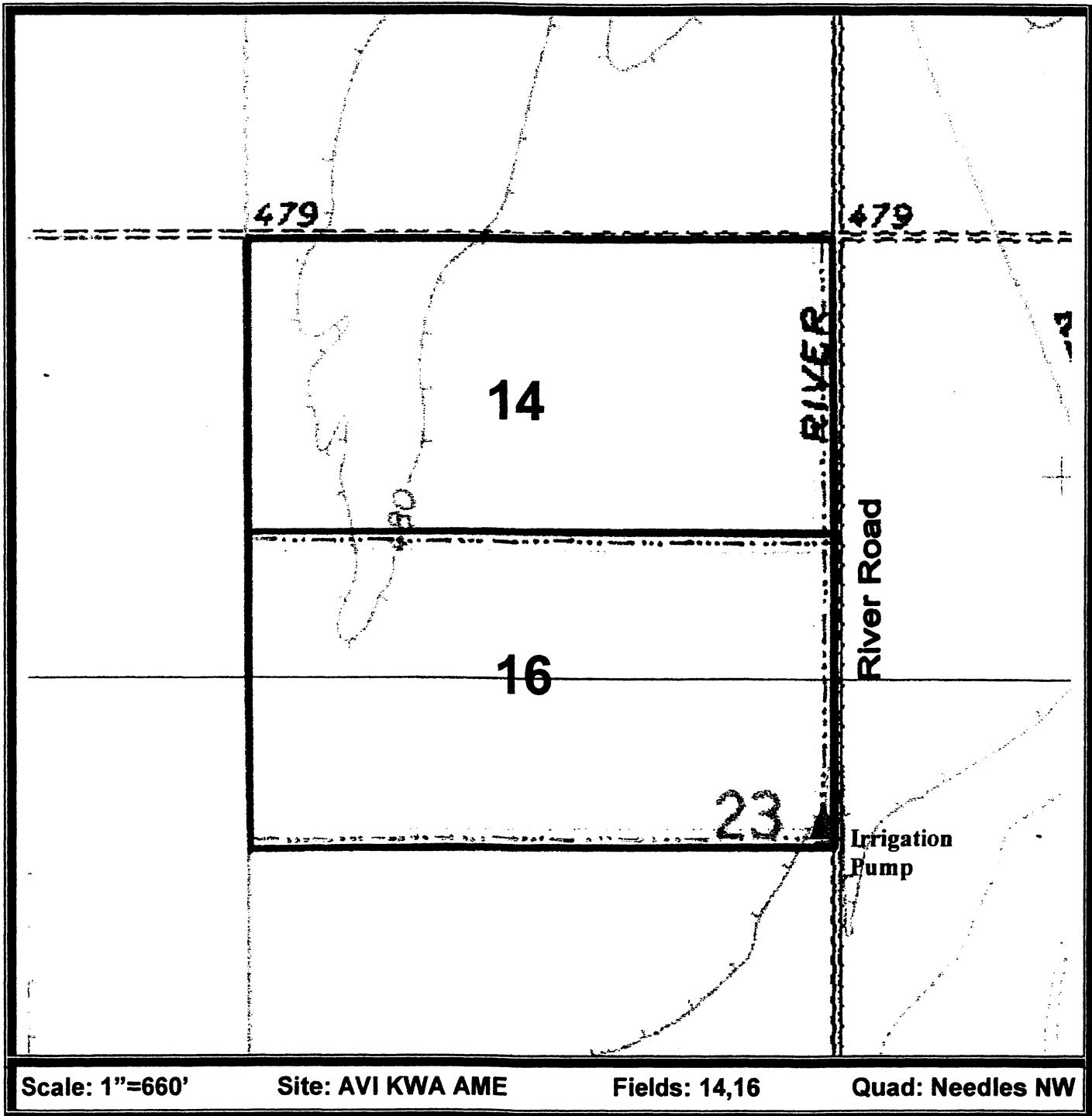


Topographic Map

Field RI-9025-3

Riverside County



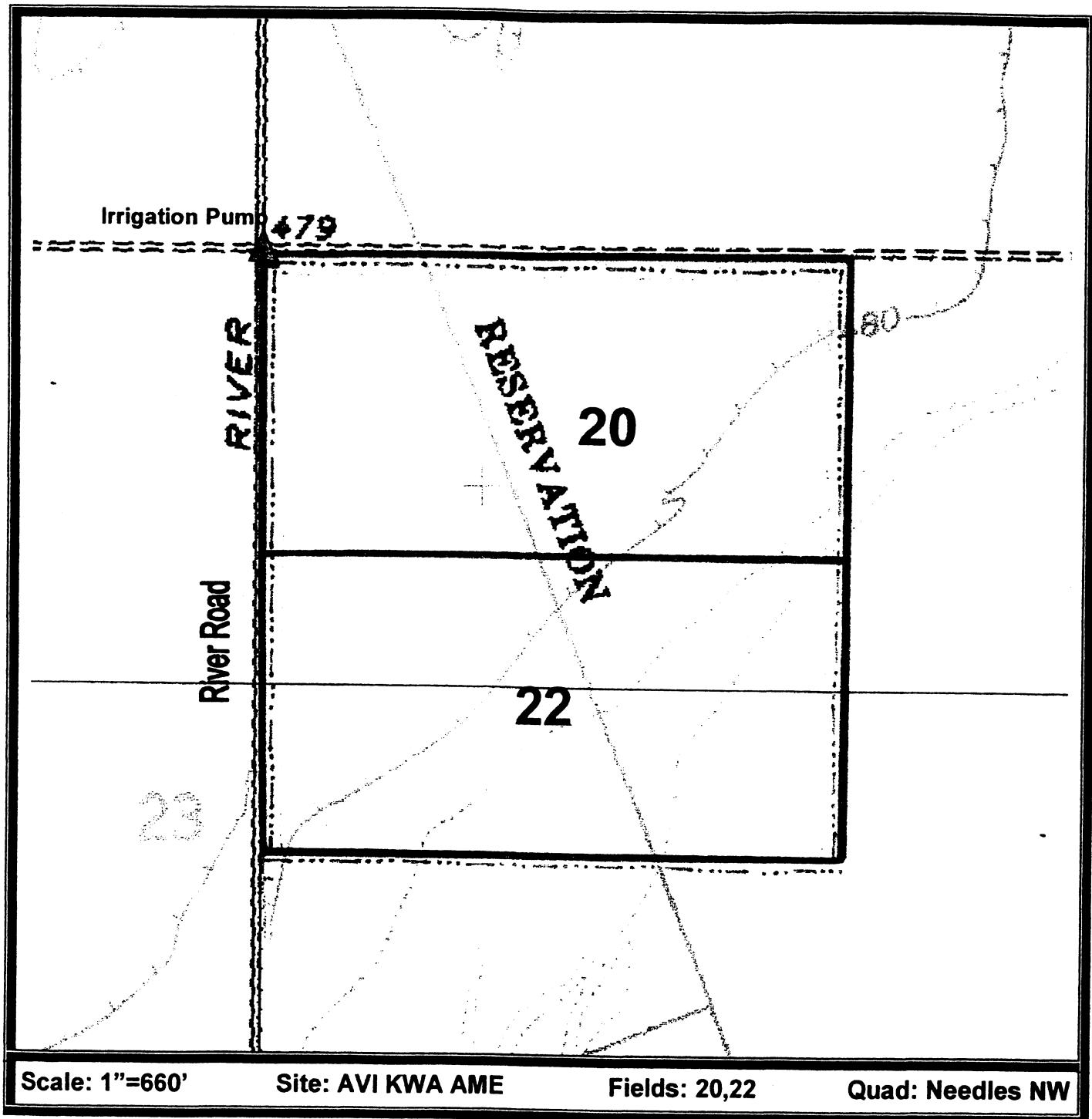
SITE MAP

LEGEND

- - - - Public Road
- - - - Property Line
- - - - Residence
- - - Surface Water
- - - Irrigation Well
- - - Domestic Well

- Site Boundary
- Stream
- Residence
- Domestic Water Well
- ▲ Irrigation Well



SITE MAP



LEGEND

- Public Road
- - - Property Line
- - - Residence
- - - Surface Water
- - - Irrigation Well
- - - Domestic Well

- Site Boundary
- Stream
- Residence
- Domestic Water Well
- ▲ Irrigation Well



